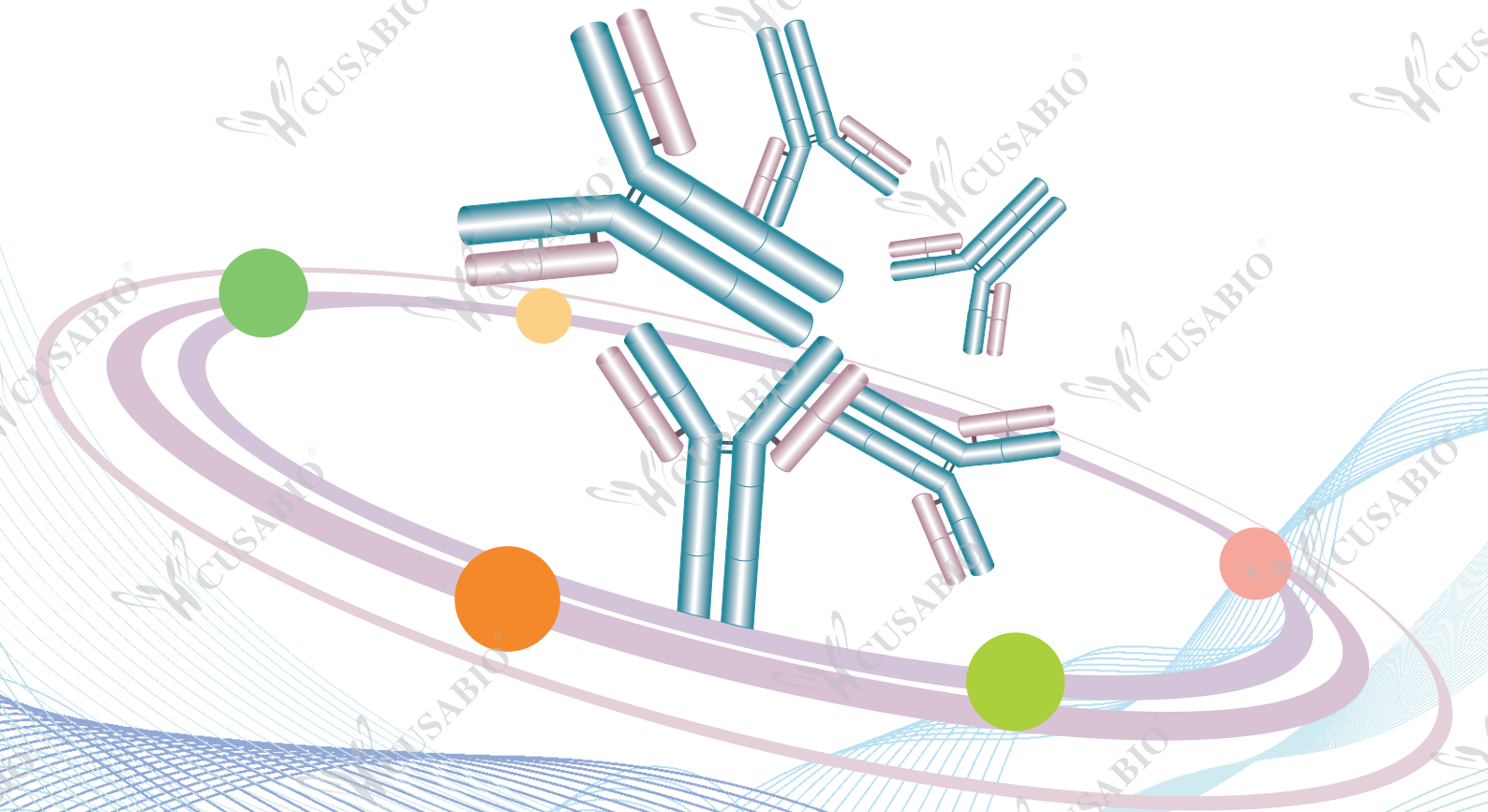
CUSABIO®

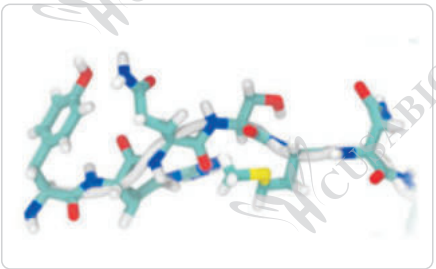
Antibody Service



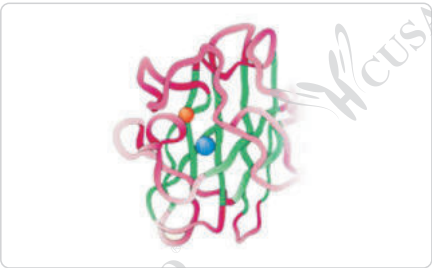
www.cusabio.com

Why choose us ?

☑ Multiple Immunogen Options



Peptide



Native Protein

Recombinant Protein

☑ Multiple Host Species Options

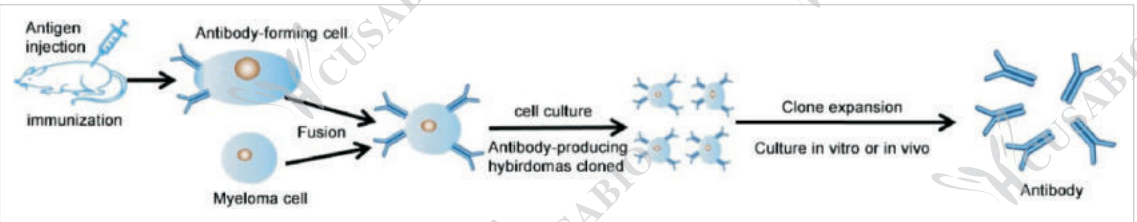
☑ Multiple Applications Options

Custom Monoclonal Antibody Production

Cusabio monoclonal antibodies are made by identical immune cells from a unique parent cell, which have better affinity compared with the same kind polyclonal antibodies.

Cusabio could offer a reliable production of custom monoclonal antibodies upon customers' various demands. Based on large-scale production as well as high quality, Cusabio custom monoclonal antibodies have been widely used in screening therapeutic targets and drugs discovery.

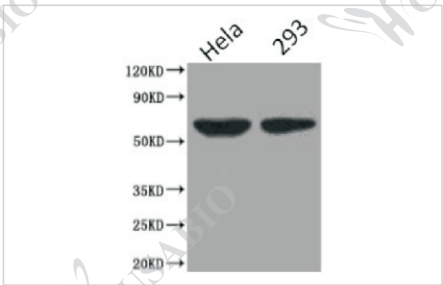
The production process of Cusabio custom monoclonal antibody is as follows.



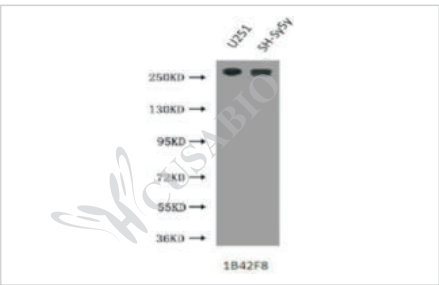
◎ Process & Deliverables

Immunogen Options	Process	Deliverables	Production Time
Peptide	Antigen Preparation ↓ Animals Immunization ↓ Serum Titer Detection ↓ Affinity or Protein A/G Purification ↓ WB Validation with Antigen	① QC report of antigen; ② 100ul×ascites; ③ 1-2mg×monoclonal antibodies purified by protein A/G; ④ ELISA titer guarantee 1:10000; ⑤ WB positive guarantee for antigen; ⑥ Validation report of hybridoma; ⑦ Other applications(IHC, IF, IP, FC) could be available upon customers' requests	18-22 Weeks
Recombinant Protein			20-24 Weeks
Native Protein			20-24 Weeks

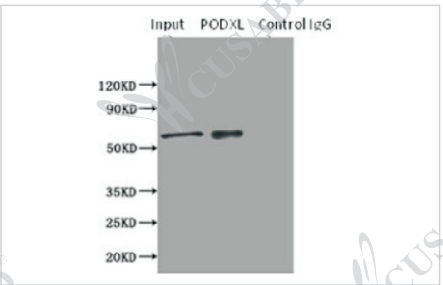
◎ Successful Showcase (partial)



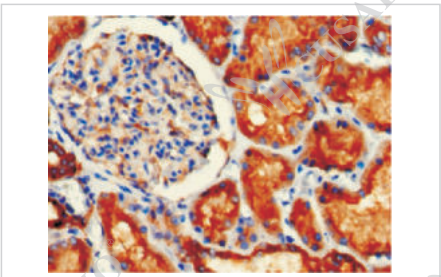
Western Blot
Positive WB detected in: Hela whole cell lysate, HEK293 whole cell lysate
All lanes: PODXL antibody at 2.5 ug/ml
Secondary
Goat polyclonal to Mouse IgG at 1/5000 dilution
Predicted band size: 59 KDa, 56 KDa
Observed band size: 59 KDa



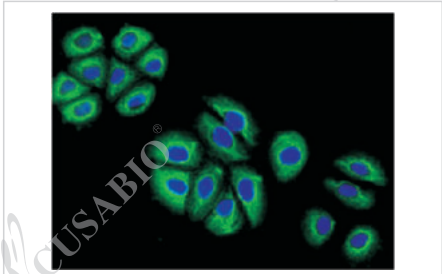
Western Blot
Positive WB detected in: U251 whole cell lysate, SH-Sy5y whole cell lysate
All lanes: NES antibody at 3 ug/ml
Predicted band size: 260 KDa
Observed band size: 260 KDa



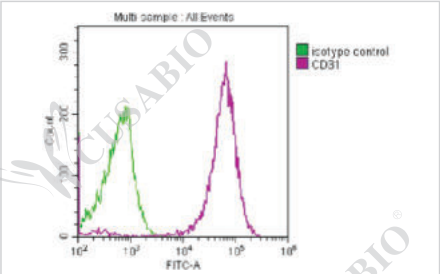
Immunoprecipitating PODXL in HEK293 whole cell lysate
Lane 1: Rabbit monoclonal IgG(1 ug)instead of PODXL in HEK293 whole cell lysate. For western blotting,a HRP-conjugated Protein G antibody was used as the secondary antibody (1/2000)
Lane 2: PODXL(8 ug)+ HEK293 whole cell lysate(500 ug)
Lane 3: HEK293 whole cell lysate (10 ug)



IHC image of A antibody diluted at 1:100 and staining in paraffin-embedded human kidney tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



Immunofluorescence staining of A549 cells with A antibody at 1:100, counter-stained with DAPI. The cells were blocked in 10% normal Goat Serum and then incubated with the primary antibody overnight at 4°C.The secondary antibody was Alexa Fluor 488-congugated AffiniPure Goat Anti-Mouse IgG (H+L).

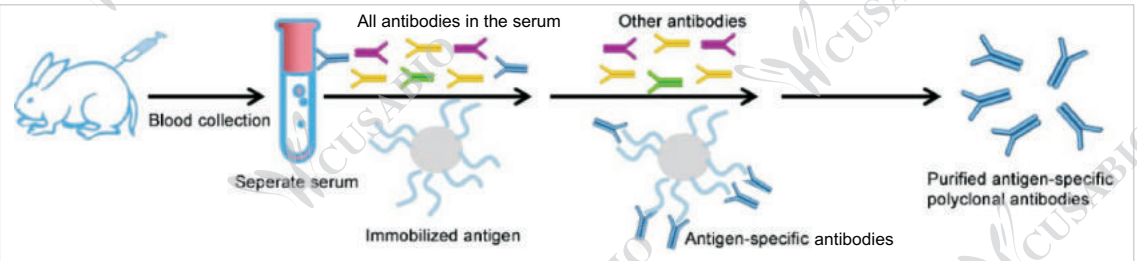


Overlay histogram showing THP-1 cells stained with CD31 (red line) at 1:500. The cells were incubated in 1x PBS /10% normal goat serum to block non-specific protein-protein interactions followed by primary antibody for 1 h at 4℃.The secondary antibody used was FITC goat anti-mouse IgG (H+L) at 1/200 dilution for 1 h at 4℃. Isotype control antibody (green line) was used under the same conditions. Acquisition of >10,000 events was performed.

Custom Polyclonal Antibody Production

Cusabio offers a reliable and wide range of custom polyclonal antibody production with multiple immunogen options as well as multiple host species options.

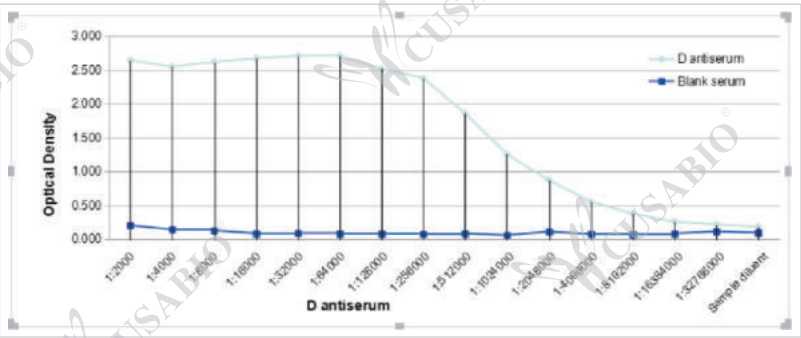
The production process of Cusabio custom polyclonal antibody is as follows.



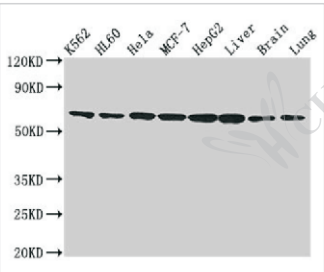
◎ Process & Deliverables

Immunogen Options	Process	Deliverables	Production Time
Peptide	Antigen preparation ↓ Animals Immunization ↓ Serum Titer Detection ↓ Affinity or Protein A/G Purification ↓ WB Validation with Antigen	① QC report of antigen; ② ELISA titer guarantee 1:64000; ③ WB positive guarantee for antigen; ④ 1ml×preimmune serum, 2ml×anti-serum, 5-10mg×antibodies purified by protein A/G; ⑤ Antibody purity guarantee 90% by SDS-PAGE detection	12-14 Weeks
Recombinant Protein			14-16 Weeks
Native Protein			12-14 Weeks

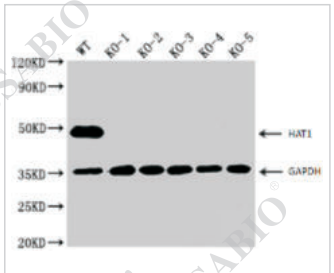
◎ Successful Showcase (partial)



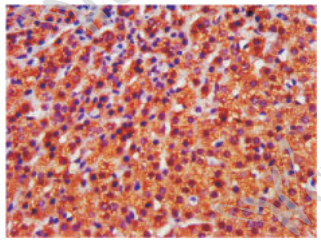
ELISA
Antigen coating concentration 2 ug/ml
Antiserum 1: 2000 is more than diluted
Secondary: Goat polyclonal to rabbit IgG at 1/50000 dilution



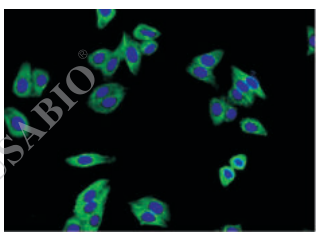
Western Blot
Positive WB detected in: K562 whole cell lysate, HL-60 whole cell lysate,Hela whole cell lysate, MCF-7 whole cell lysate, HepG2 whole cell lysate, Rat liver tissue, Mouse brain tissue, Mouse lung tissue
All lanes: a antibody at 2ug/ ml
Secondary
Goat polyclonal to rabbit IgG at 1/50000 dilution
Predicted band size: 64 KDa
Observed band size: 64 KDa



Western blot
WT: Wild-type 293 cells
KO: Knockout 293 cells



IHC image of A antibody diluted at 1:400 and staining in paraffin-embedded human adrenal gland tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



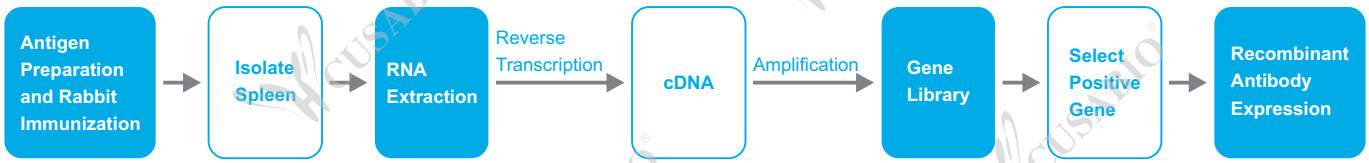
Immunofluorescence staining of HepG2 cells with A antibody at 1:400,counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C.The secondary antibody was Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG (H+L).

Custom Recombinant Antibody Production

Recombinant antibody, also known as genetic engineering antibody, refers to the usage of recombinant DNA and protein engineering technology to modify or recombine antibody genes according to various needs, then expressed after transfection via appropriate receptor cell.

Cusabio could offer one-stop service of recombinant antibody production to customers upon your various needs.

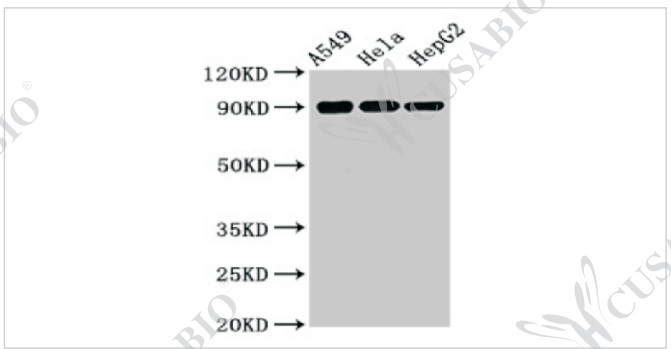
The production process of Cusabio custom recombinant antibody is as follows.



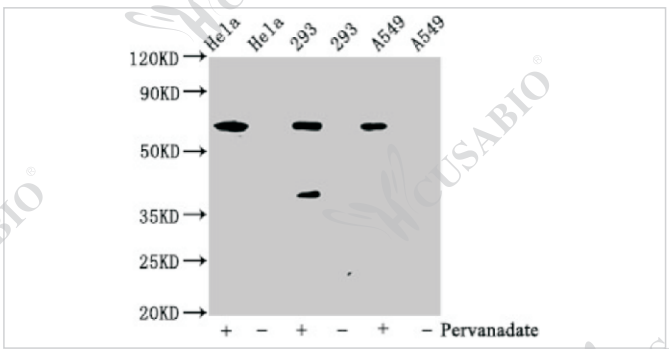
◎ Process & Deliverables

Antigen Preparation	Process	Deliverables	Production Time
Peptide Synthesis	Select Positive Gene ↓ Recombinant Antibody Expression ↓ Protein A/G Purification ↓ ELISA, WB Validation	① QC report of antigen; ② 100ug×purified recombinant antibodies together with QC report, including the information of gene sequencing, concentration, purity and endotoxin content; ③ WB positive guarantee for antigen; ④ Other applications(IHC, IF, IP, FC, ChIP) could be available upon customers' requests	8-16 weeks
Recombinant Protein Production			12-16 weeks
Native Protein Selection			12-16 weeks

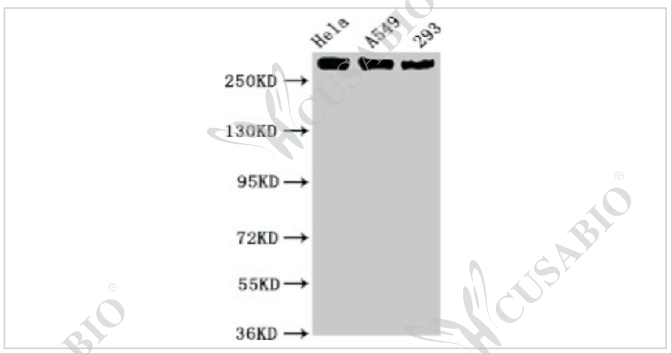
◎ Successful Showcase (partial)



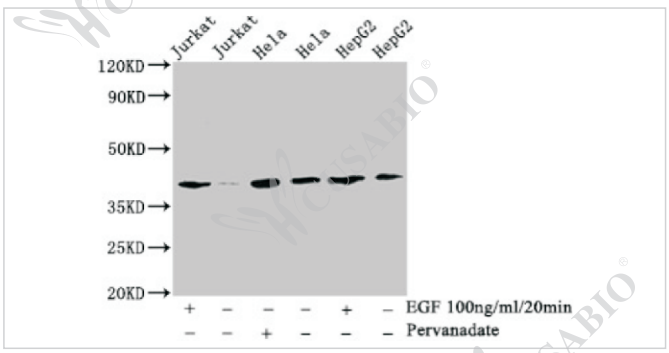
Western Blot
Positive WB detected in: A549 whole cell lysate, Hela whole cell lysate, HepG2 whole cell lysate
primary antibody: Phospho-RSK1 antibody at 1.75μg/ml
Secondary antibody: Goat polyclonal to rabbit IgG at 1/50000 dilution
Predicted band size: 90 KDa
Observed band size: 90 KDa



Western Blot
Positive WB detected in: Hela whole cell lysate, 293 whole cell lysate, A549 whole cell lysate(treated with Pervanadate or not)
primary antibody: Phospho-SHP2 antibody at 0.65μg/ml
Secondary antibody: Goat polyclonal to rabbit IgG at 1/50000 dilution
Predicted band size: 68 KDa
Observed band size: 68 KDa



Western Blot
Positive WB detected in: Hela whole cell lysate, A549 whole cell lysate,293 whole cell lysate
primary antibody: Phospho-POLR2A antibody at 1.02μg/ml
Secondary antibody: Goat polyclonal to rabbit IgG at 1/50000 dilution
Predicted band size: 270 KDa
Observed band size: 270 KDa



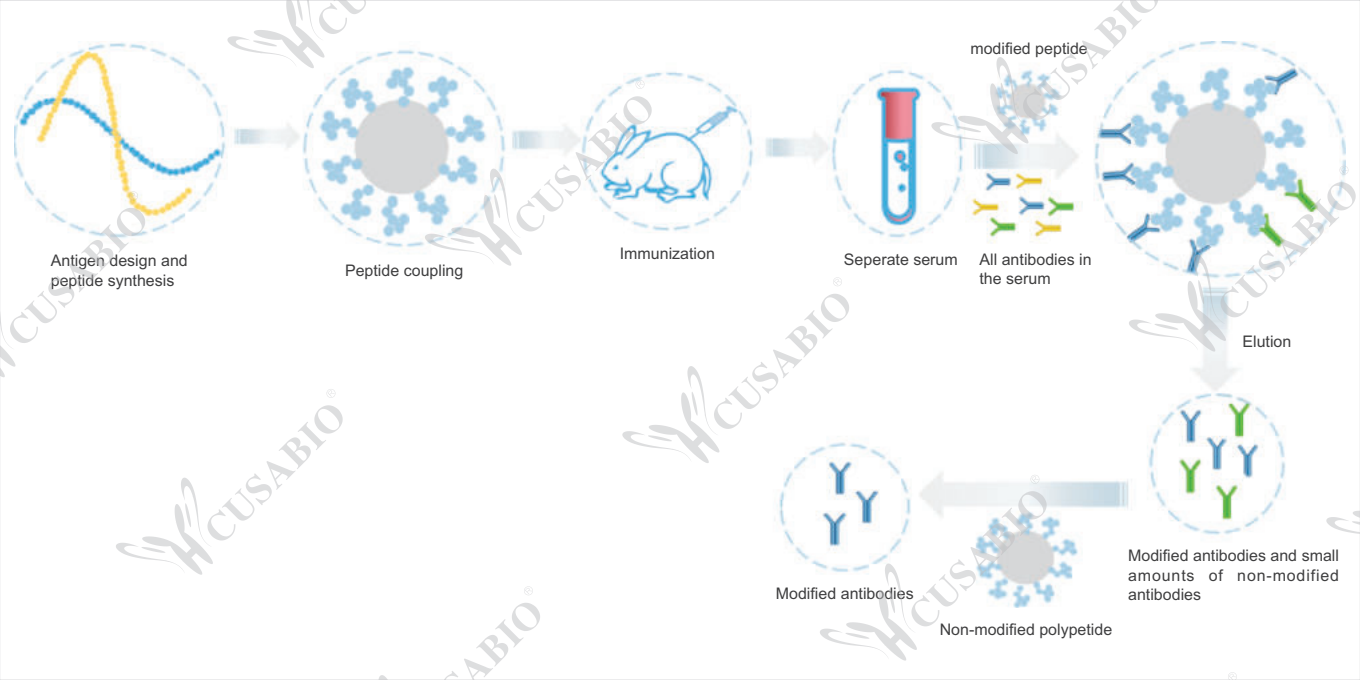
Western Blot
Positive WB detected in: Jurkat whole cell lysate, Hela whole cell lysate, HepG2 whole cell lysate (treated with EGF or Pervanadate)
primary antibody: Phospho-LAT antibody at 2.9μg/ml
Secondary antibody: Goat polyclonal to rabbit IgG at 1/50000 dilution
Predicted band size: 38 KDa
Observed band size: 38 KDa

Custom Modification-specific Antibody Production

Any one modification-specific antibody can discriminate the difference of combination sites between modified and non-modified forms of an individual protein, which enables qualitative and quantitative detection of modified proteins to study the protein activity.

Cusabio could customize modification-specific polyclonal or monoclonal antibodies, which are affinity-purified without any cross-reactivity with non-modified forms of proteins.

The production process of Cusabio custom modification-specific antibody is as follows.



◎ Process & Deliverables

Antibody Type	Antigen Preparation	Process	Deliverabes	Production Time
Modification-specific Polyclonal Antibody	Peptide Synthesis	Animals Immunization ↓ Serum Titer Detection ↓ Affinity Purification ↓ WB Validation with Antigen	① HPLC report of antigen; ② ELISA titer guarantee 1:10000; ③ WB positive guarantee for antigen; ④ 1ml×preimmune serum, 2ml×anti-serum, 1mg×antibodies purified by antigen affinity.	12-14 weeks
Modification-specific Monoclonal Antibody	Peptide Synthesis			12-14 weeks

CUSABIO TECHNOLOGY LLC

Postal Address: 7707 Fannin St., Ste 200-V126, Houston, TX 77054, USA

Tel: 301-363-4651 (Available 9 a.m. to 5 p.m. CST from Monday to Friday)

Web: www.cusabio.com