



Rabbit Anti-phospho-FRS2 (Tyr436) antibody

SL7902R

Product Name:	phospho-FRS2 (Tyr436)
Chinese Name:	磷酸化成分纤维细胞生长因子受体底物2抗体
Alias:	p-FRS2(Tyr436); phospho-FRS2(Y436); FRS2(phospho-Y436); FRS2(phospho-Tyr436); p-FRS2(Y436); FGFR signaling adaptor SNT; FGFR signalling adaptor; FGFR substrate 2; FGFR-signaling adaptor SNT; Fibroblast Growth Factor Receptor Substrate 2; FRS 2; FRS2_HUMAN; FRS2A; FRS2alpha; SNT 1; SNT; SNT-1; SNT1; Suc 1 Associated Neurotrophic Factor Target; Suc1 associated neurotrophic factor target 1; Suc1-associated neurotrophic factor target 1.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	57kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthesised phosphopeptide derived from human FRS2 around the phosphorylation site of Tyr436:LN(p-Y)IQ
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed

Adapter protein that links FGR and NGF receptors to downstream signaling pathways. Involved in the activation of MAP kinases. Modulates signaling via SHC1 by competing for a common binding site on NTRK1.

Tissue specificity: Highly expressed in heart, brain, spleen, lung, liver, skeletal muscle, kidney and testis.

Function:

Adapter protein that links activated FGR and NGF receptors to downstream signaling pathways. Plays an important role in the activation of MAP kinases and in the phosphorylation of PIK3R1, the regulatory subunit of phosphatidylinositol 3-kinase, in response to ligand-mediated activation of FGFR1. Modulates signaling via SHC1 by competing for a common binding site on NTRK1.

Subunit:

Part of a complex containing FRS2, GRB2, GAB1, PIK3R1 and SOS1. Part of a complex containing GRB2 and CBL. Identified in a complex containing FGFR4, NCAM1, CDH2, PLCG1, FRS2, SRC, SHC1, GAP43 and CTTN. Binds RET (By similarity). Binds ALK, FGFR1, CKS2, MAPK1/ERK2, MAPK3/ERK1 and SRC. The tyrosine-phosphorylated protein binds the SH2 domains of GRB2 and PTPN11. Interacts with NTRK1, NTRK2 and NTRK3 (phosphorylated upon ligand-binding).

Subcellular Location:

Endomembrane system. Note=Cytoplasmic, membrane-bound.

Tissue Specificity:

Highly expressed in heart, brain, spleen, lung, liver, skeletal muscle, kidney and testis.

Post-translational modifications:

Phosphorylated by ULK2 in vitro (By similarity). Phosphorylated on tyrosine residues upon stimulation by NGF or FGF2. Phosphorylated on tyrosine residues by activated ALK and FGFR1. Phosphorylated on tyrosine residues upon activation of FGFR2 and FGFR3. Phosphorylated on threonine residues by MAP kinases; this inhibits tyrosine phosphorylation, and thereby down-regulates FRS2-mediated activation of MAP kinases.

Ubiquitinated when tyrosine phosphorylated and in a complex with GRB2. The unphosphorylated form is not subject to ubiquitination (By similarity).

Similarity:

Contains 1 IRS-type PTB domain.

SWISS:

Q8WU20

Gene ID:

10818

Product Detail:

Database links:

[Entrez Gene: 10818](#)Human

[Entrez Gene: 327826](#)Mouse

[Entrez Gene: 314850](#)Rat

[Olim: 607743](#)Human

[SwissProt: Q8WU20](#)Human

[SwissProt: Q8C180](#)Mouse

[Unigene: 593446](#)Human

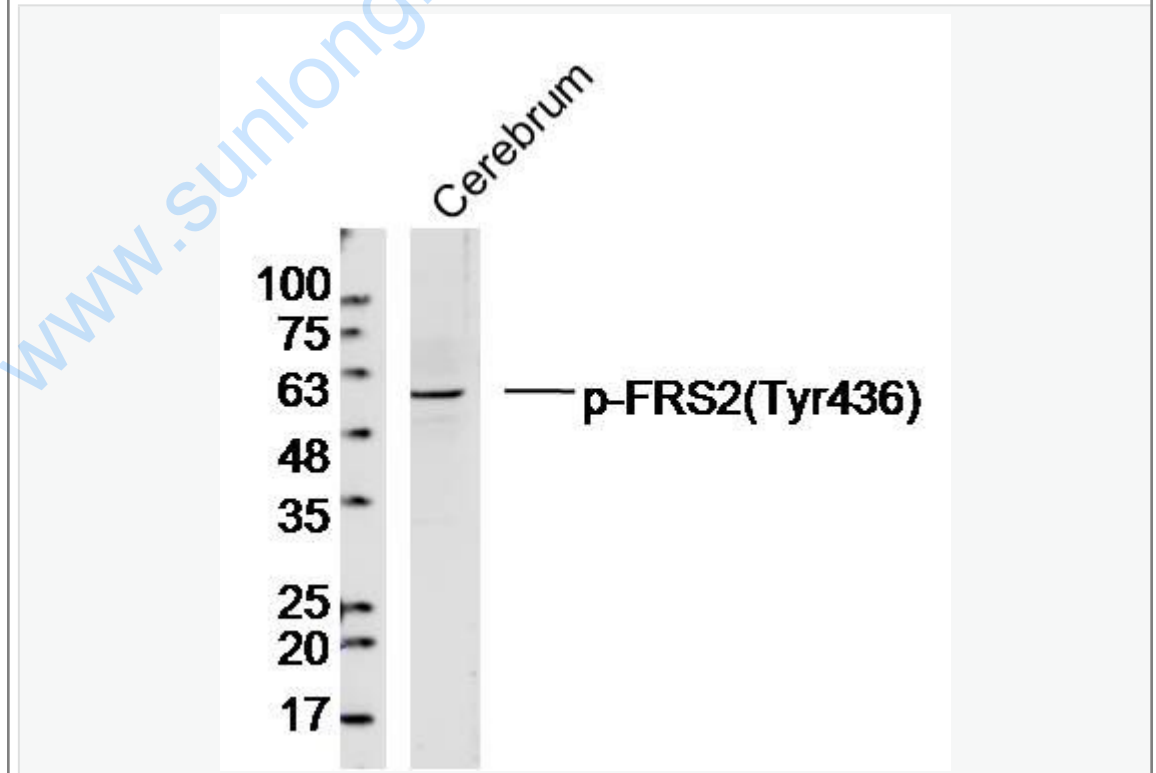
[Unigene: 135965](#)Mouse

[Unigene: 22182](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



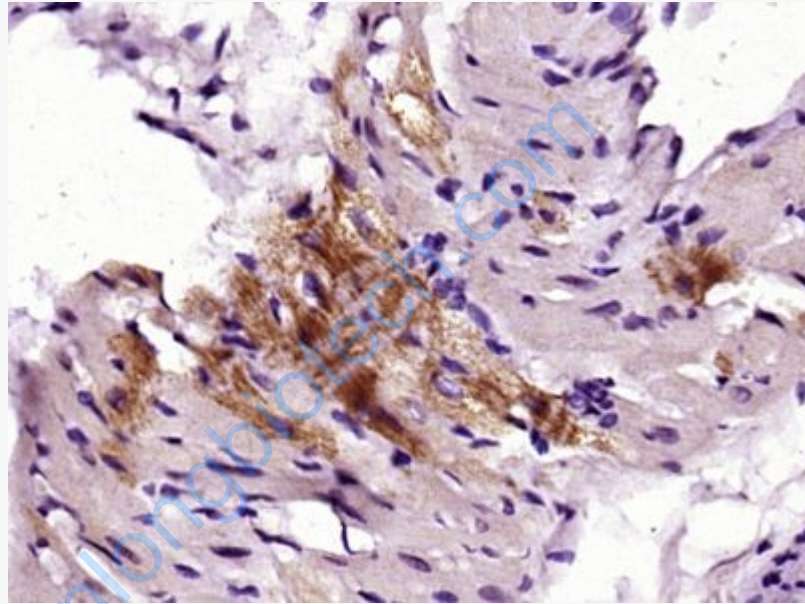
Sample: Cerebrum (Mouse) Lysate at 40 ug

Primary: Anti-p-FRS2(Tyr436) (SL7902R) at 1/300 dilution

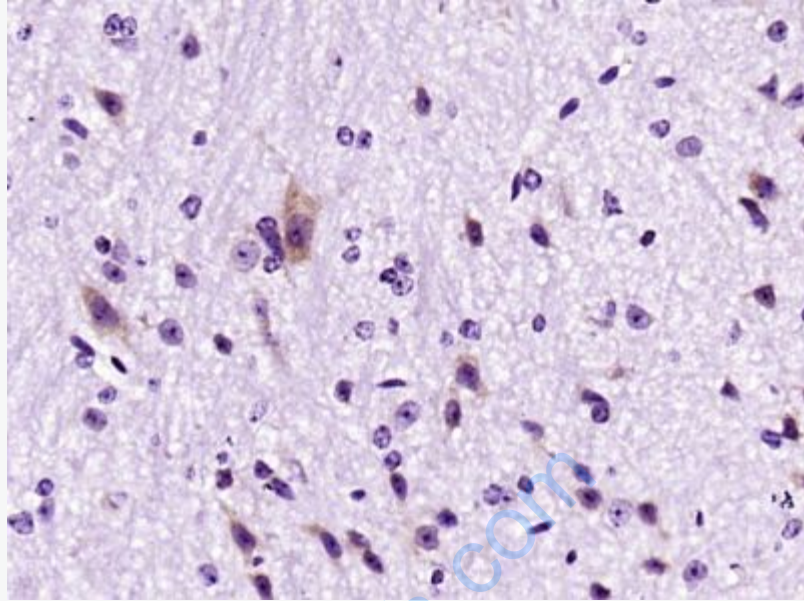
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 57 kD

Observed band size: 57 kD



Paraformaldehyde-fixed, paraffin embedded (Rat heart); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (phospho-FRS2(Tyr436)) Polyclonal Antibody, Unconjugated (SL7902R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (phospho-FRS2(Tyr436)) Polyclonal Antibody, Unconjugated (SL7902R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.