

Rabbit FRS2 Polyclonal Antibody | anti-FRS2 antibody

Phospho-FRS2 (Tyr196) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA31412	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%)	Western Blot, Immunohistochemistry, Immunofluorescence, Immunocytochemistry, ELISA

PRODUCT SYNONYMS

FRS2; Polyclonal Antibody; Phospho-FRS2 (Tyr196) Antibody; 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; anti-FRS2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-FRS2 (Tyr196) Antibody detects endogenous levels of FRS2 only when phosphorylated at Tyr196. Tissue Specificity: Highly expressed in heart, brain, spleen, lung, liver, skeletal muscle, kidney and testis.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-FRS2 antibody	WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence), ICC (Immunocytochemistry), ELISA (Peptide ELISA)
Application Notes	WB: 1:1000-3000 IHC: 1:50-1:200 IF/ICC: 1:100-1:500 Peptide ELISA: 1:20,000-1:40,000
Immunogen	A synthesized peptide derived from human FRS2 around the phosphorylation site of Tyr196.
Conjugation	Unconjugated
Fragment	Fab fragment
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).

Subunit Structure	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.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



Application Data

At 25 degree C. Samples were then incubated with primary Ab(At 37 degree C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody.The nuclear counter stain is DAPI(blue).



IHC (Immunohistochemistry)

At 1/200 staining Human kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)

At 1/200 staining Mouse intestinal tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)

At 1/200 staining Rat kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)

At 1/100 staining Human pancreatic cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)

At 1/100 staining Human pancreatic cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-FRS2 antibody	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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	110347414
NCBI GeneID	10818
NCBI Accession #	NP_001036020.1
NCBI GenBank Nucleotide #	NM_001042555.2
UniProt Accession #	Q8WU20; O43558; Q7LDQ6; B0LPF2; B2R684
Molecular Weight	57,029 Da

NCBI Official Full Name	fibroblast growth factor receptor substrate 2
NCBI Official Synonym Full Names	fibroblast growth factor receptor substrate 2
NCBI Official Symbol	FRS2
NCBI Official Synonym Symbols	SNT; SNT1; FRS2A; SNT-1; FRS2alpha
NCBI Protein Information	fibroblast growth factor receptor substrate 2; FGFR substrate 2; FGFR signalling adaptor; FGFR-signaling adaptor SNT; suc1-associated neurotrophic factor target 1
UniProt Protein Name	Fibroblast growth factor receptor substrate 2
UniProt Gene Name	FRS2
UniProt Synonym Gene Names	FGFR substrate 2; SNT-1
UniProt Entry Name	FRS2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/frs2-antibody-western-blot-immunohistochemistry-immunofluorescence-immunocytochemistry-peptide-elisa-elisa/31412>