

Rabbit anti-Human, Mouse FRS2 Polyclonal Antibody | anti-FRS2 antibody

Phospho-FRS2 (Tyr436) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321754	Rabbit	Human, Mouse	ELISA, Immunohistochemistry, Western Blot

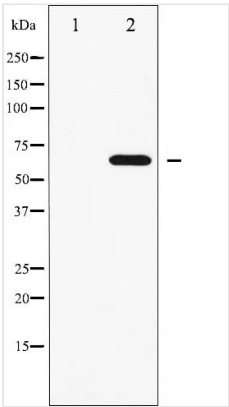
PRODUCT SYNONYMS

FRS2; Polyclonal Antibody; Phospho-FRS2 (Tyr436) 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

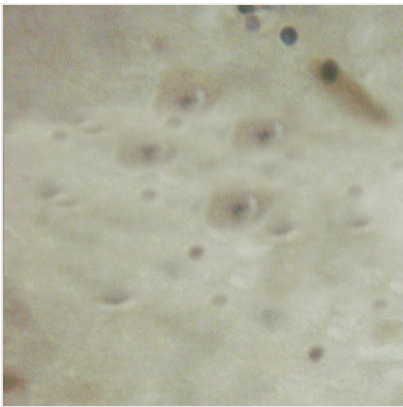
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-FRS2 (Tyr436) antibody detects endogenous levels of FRS2 only when phosphorylated at Tyrosine 436
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	508
Applicable Applications for anti-FRS2 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human FRS2 around the phosphorylation site of Tyrosine 436
Subcellular Location	Endomembrane System. Cytoplasmic, Membrane-Bound.
Tissue Specificity	Highly expressed in heart, brain, spleen, lung, liver, skeletal muscle, kidney and testis.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (92%)
Conjugation	Unconjugated
Epitope	Phospho Tyr436
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of FRS2 phosphorylation expression in COS7 whole cell lysates, The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)

Phospho-FRS2 (Tyr436) Antibody for IHC in human brain tissue



WB (Western Blot)

Western blot analysis of FRS2 phosphorylation expression in HeLa whole cell lysates, The lane on the right is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-FRS2 antibody	Description: FRS2 is an adaptor protein involved in fibroblast growth factor receptor (FGFR) signaling. Plays an important role in linking FGFR and nerve growth factor receptors with Ras/MAPK signaling pathways. 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 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). 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).
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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	Observed: 65 kDa Predicted: 58 kDa
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; FRS1A; FRS2A; SNT-1; FRS2alpha
NCBI Protein Information	fibroblast growth factor receptor substrate 2
UniProt Protein Name	Fibroblast growth factor receptor substrate 2
UniProt Gene Name	FRS2
UniProt Synonym Gene Names	FGFR substrate 2; SNT-1

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-immunohistochemistry-western-blot-elisa/321754>