

Phospho-FRS2-α (Tyr436) Antibody



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Applications: W	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 80 to 85	Source/Isotype: Rabbit	UniProt ID: #Q8WU20	Entrez-Gene Id: 10818
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Phospho-FRS2-alpha (Tyr436) Antibody detects endogenous levels of FRS2-alpha only when phosphorylated at tyrosine 436. The antibody does not cross-react with unrelated tyrosine-phosphorylated proteins.				
Species predict based on 100% homology		Rat				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr436 of human FRS2-alpha. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		Fibroblast growth factor receptor substrate 2 (FRS2, also called Suc-associated neurotrophic factor-induced tyrosine-phosphorylated target or SNT) participates in the transmission of extracellular signals from the fibroblast growth factor receptor (FGFR). FGFR activation leads to tyrosine phosphorylation of FRS2 (1). Two FRS2 family members have been identified, FRS2- α (SNT1) and FRS2- β (SNT2) (2), which are phosphorylated by these receptor tyrosine kinases (RTKs). Once phosphorylated, they recruit SH2 domain-containing proteins, including Grb2 and SHP-2 (3,4), mediating downstream signaling. Tyr436 is required for efficient SHP-2 recruitment (5), whereas Tyr196 functions as a docking site for Grb2-Sos complexes (6).				
Background References		 Kouhara, H. et al. (1997) Cell 89, 693-702. Ong, S. H. et al. (2000) Mol. Cell. Biol. 20, 979-989. Kontaridis, M. I. et al. (2002) Mol. Cell. Biol. 22, 3875-3891. Xu, H. and Goldfarb, M. (2001) J. Biol. Chem. 276, 13049-13056. Hadari, Y. R. et al. (1998) Mol. Cell. Biol. 18, 3966-3973. Kouhara, M. et al. (1997) Cell 89, 693-702. 				
Species Reactivity		Species reactivity is determined by testing in at least one approved application (e.g., western blot).				
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Ke	ey .	W: Western Blotting				
Cross-Reactivity	y Key	H: Human M: Mouse				

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