Phospho-FRS2 Antibody	-α (Tyr436)		3 Trask I	Orders: Support: Web:	EII Signaling CHNOLOGY® 877-616-CELL (2355) orders@cellsignal.com 877-678-TECH (8324) info@cellsignal.com cellsignal.com
For Research Use Only. Not for Applications: Reactive WB H M	vity: Sensitivity:	edures. MW (kDa): 80 to 85	Source: Rabbit	UniProt ID: #Q8WU20	Entrez-Gene Id: 10818
Product Usage Information	Application Western Blotting			Dilution 1:1000	
Storage	Supplied in 10 mM sodi 20°C. Do not aliquot the		5), 150 mM NaCl, 100	) µg/ml BSA and 50	% glycerol. Store at –
Specificity / Sensitivity	Phospho-FRS2-alpha ( phosphorylated at tyrosi proteins.				
Species predicted to react based on 100% sequence 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). Activation of the FGFR leads to tyrosine phosphorylation of FRS2 (1). Two FRS2 family members have been identified, FRS2-alpha (SNT1) and FRS2-beta (SNT2) (2), which are phosphorylated by these RTKs. Once they are 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	<ol> <li>Kouhara, H. et al. (1997) <i>Cell</i> 89, 693-702.</li> <li>Ong, S. H. et al. (2000) <i>Mol. Cell. Biol.</i> 20, 979-989.</li> <li>Kontaridis, M. I. et al. (2002) <i>Mol. Cell. Biol.</i> 22, 3875-3891.</li> <li>Xu, H. and Goldfarb, M. (2001) <i>J. Biol. Chem.</i> 276, 13049-13056.</li> <li>Hadari, Y. R. et al. (1998) <i>Mol. Cell. Biol.</i> 18, 3966-3973.</li> <li>Kouhara, M. et al. (1997) <i>Cell</i> 89, 693-702.</li> </ol>				
Species Reactivity	Species reactivity is dete	rmined by testing i	n at least one approv	ed 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 Key	WB: Western Blotting				
Cross-Reactivity Key	<ul> <li>H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster</li> <li>X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse</li> <li>GP: Guinea Pig Rab: rabbit All: all species expected</li> </ul>				
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