3/23/24, 1:18 PM Revision 1

Phospho-FRS2	-α (Tyr196)				CHNOLOGY* 877-616-CELL (2355) orders@cellsignal.com
				Support:	877-678-TECH (8324)
#3864				Web:	info@cellsignal.com cellsignal.com
#			3 Trask I	ane Danvers Mas	ssachusetts 01923 USA
For Research Use Only. Not for					
Applications: Reactiv WB H M		MW (kDa): 85	Source: Rabbit	UniProt ID: #Q8WU20	Entrez-Gene Id: 10818
Product Usage	Application			Dilution	
Information	Western Blotting			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-α (Tyr1 tyrosine 196. The antibo		-		n phosphorylated at
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 Tyr196 of human FRS2- α . 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	 Kouhara, H. et al. (1997) <i>Cell</i> 89, 693-702. Ong, S. H. et al. (2000) <i>Mol. Cell. Biol.</i> 20, 979-989. Kontaridis, M. I. et al. (2002) <i>Mol. Cell. Biol.</i> 22, 3875-3891. Xu, H. and Goldfarb, M. (2001) <i>J. Biol. Chem.</i> 276, 13049-13056. Hadari, Y. R. et al. (1998) <i>Mol. Cell. Biol.</i> 18, 3966-3973. Kouhara, M. et al. (1997) <i>Cell</i> 89, 693-702. 				
Species Reactivity	Species reactivity is dete	ermined by testing i	n at least one approv	ed application (e.g., v	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	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected				
Trademarks and Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.				
Limited Uses					

Phospho-FRS2-α (Tyr196) Antibody (#3864) Datasheet Without Images Cell Signaling Technology

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.