Store at -20C

066

Phospho-IRS-1 (Tyr1222) Antibody

oraci3.	orders@cellsignal.com
Support:	877-678-TECH (8324)
Web:	info@cellsignal.com cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB	Reactivity: H	Sensitivity: Endogenous	<b>MW (kDa):</b> 180	Source: Rabbit	UniProt ID: #P35568	Entrez-Gene Id: 3667	
Product Usage Information	-	plication stern Blotting			<b>Dilution</b> 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 / Sensit	Tyr1	Phospho-IRS-1 (Tyr1222) Antibody detects endogenous levels of IRS-1 only when phosphorylated at Tyr1222. The antibody may cross-react with other activated receptor tyrosine kinases (RTKs) and docking proteins.					
Species predicted react based on 100 sequence homolog	0%	ise, Rat					
Source / Purification	to re			-	n a synthetic phosphope re purified by protein A a		
Background	cont prot over IKK path of IF	ains multiple tyrosin eins that mediate the 30 potential serine/ (6) while Ser789 is ways mediate phos RS-1 at Ser1101 is n	e phosphorylation e metabolic and gr (threonine phosphorylated by phorylation of IRS- nediated by PKC0	motifs that serve as bowth-promoting func- rylation sites. Ser30 SIK-2, a member of 1 at Ser612 and Ser and results in an inh	tes of the insulin recepto docking sites for SH2-d tions of insulin (2-4). IR 7 of IRS-1 is phosphory the AMPK family (7). Th 636/639, respectively (8 ibition of insulin signalin e models of obesity (10	omain containing S-1 also contains dated by JNK (5) and he PKC and mTOR 3,9). Phosphorylation g in the cell,	
	Tyr1	Phosphorylation of tyrosine 1222 of IRS-1 was identified in insulin stimulated cells (11). Phosphorylated Tyr1222 provides a docking site for the SH2 domain of PTP2C, which may mediate dephosphorylation of IRS-1 and lead to negative feedback of insulin signaling (12).					
Background Refer	2. Si 3. M 4. W 5. R 6. G 7. H 8. O 9. D 10. Li 11. Si	ang, L.M. et al. (199 ui, L. et al. (1997) <i>J.</i> ao, Z. et al. (2002) J orike, N. et al. (2003 zes, O.N. et al. (2003	<ol> <li>J. Biol. Chem. 26 (1993) Endocrinolo 33) Science 261, 19 Clin. Invest. 107, 1 J. Biol. Chem. 277, 3) J. Biol. Chem. 277 (1) Proc. Natl. Acad R.A. (1997) Biocho Biol. Chem. 279, 45 (1) Mol. Cell. Biol. 13</li> </ol>	7, 22662-22672. 9gy 132, 1421-1430. 591-1594. 181-189. 48115-48121. 78, 18440-18447. 6. Sci. USA 98, 4640 emistry 36, 12939-12 304-45307. , 7418-7428.			
Species Reactivity	Spec	ies reactivity is dete	rmined by testing i	n at least one appro	ved application (e.g., we	estern blot).	
Western Blot Buffe	er IMPC	RTANT: For wester	n blots, incubate m	embrane with dilute	d primary antibody in 5%	% w/v BSA, 1X TBS,	

0.1% Tween® 20 at 4°C with gentle shaking, overnight.

1/18/24, 11:34 AM Applications Key Cross-Reactivity Key	<ul> <li>Phospho-IRS-1 (Tyr1222) Antibody (#3066) Datasheet Without Images Cell Signaling Technology WB: Western Blotting</li> <li>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</li> </ul>
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	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 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.