e at -20C	Phospho-IRS-1 (Ser612) Antibody		<b>Cell Signaling</b> TECHNOLOGY®
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com
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Applications: WB	Reactivity: H M R	Sensitivity: Endogenous	<b>MW (kDa):</b> 180	Source: Rabbit	UniProt ID: #P35568	Entrez-Gene Id: 3667		
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 / Sensit	mou	Phospho-IRS-1 (Ser612) Antibody detects endogenous IRS-1 only when phosphorylated at serine 612 of mouse IRS-1 or serine 616 of human IRS-1. The antibody does not detect IRS-1 phosphorylated at other sites.						
Source / Purificatio	to re	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser612 of mouse IRS-1. Antibodies are purified by protein A and peptide affinity chromatography.						
Background	con prot ove IKK patt of IF	tains multiple tyrosi eins that mediate th r 30 potential serine (6) while Ser789 is nways mediate phos RS-1 at Ser1101 is	ne phosphorylation ne metabolic and gr /threonine phosphorylated by sphorylation of IRS- mediated by PKC0	motifs that serve as owth-promoting fun- orylation sites. Ser30 SIK-2, a member o 1 at Ser612 and Se and results in an inl	ates of the insulin recept s docking sites for SH2-c ctions of insulin (2-4). IR 07 of IRS-1 is phosphory f the AMPK family (7). T r636/639, respectively ( hibition of insulin signalir ne models of obesity (10	lomain containing IS-1 also contains /lated by JNK (5) and he PKC and mTOR 8,9). Phosphorylation ng in the cell,		
Background Refere	2. S 3. M 4. W 5. R 6. G 7. H 8. C 9. D	/ang, L.M. et al. (19 jui, L. et al. (1997) J jao, Z. et al. (2002) jorike, N. et al. (200 jzes, O.N. et al. (20	<ol> <li>J. Biol. Chem. 26 (1993) Endocrinolo (93) Science 261, 1</li> <li>Clin. Invest. 107, J. Biol. Chem. 277, 3) J. Biol. Chem. 27</li> <li>D. Biol. Chem. 27</li> <li>J. Biol. Chem. 27</li> <li>Proc. Natl. Acad , R.A. (1997) Bioch</li> </ol>	7, 22662-22672. ogy 132, 1421-1430 591-1594. 181-189. 48115-48121. 78, 18440-18447. d. Sci. USA 98, 464 emistry 36, 12939-1	0-4645.			
Species Reactivity	Spec	cies reactivity is dete	ermined by testing i	n at least one appro	oved application (e.g., we	estern blot).		
Western Blot Buffe	-	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	WB: Western Blotting						
Cross-Reactivity K	X: X	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						
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Limited Uses								

Phospho-IRS-1 (Ser612) Antibody (#2386) Datasheet Without Images Cell Signaling Technology

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