e at -20C	Phospho-IRS-1 (Ser302) Antibody		Cell Signaling	
Store at		Orders:	877-616-CELL (2355) orders@cellsignal.com	
34		Support	: 877-678-TECH (8324)	
2384		Web:	info@cellsignal.com cellsignal.com	
#	3	Trask Lane   Danver	s   Massachusetts   01923   USA	

For Research Use Only	Not for Use in Dia	anostic Procedures.

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	•	plication estern Blotting			Dilution 1:1000	
Storage	•	plied in 10 mM sodi C. Do not aliquot the		5), 150 mM NaCl, 10	00 μg/ml BSA and 50% ς	glycerol. Store at –
Specificity / Sensi	Ser	Phospho-IRS-1 (Ser 302) Antibody detects endogenous levels of IRS-1 only when phosphorylated at Ser302 of mouse IRS-1 or Ser307 of human IRS-1. This antibody does not detect IRS-1 phosphorylated at other sites.				
Species predicted react based on 10 sequence homolo	0%					
Source / Purificati	to re			Ū	th a synthetic phosphope re purified by protein A a	
Background	coni prot over IKK path of IF sug Ser insu pho pho	tains multiple tyrosin eins that mediate th r 30 potential serine (6) while Ser789 is ways mediate phose RS-1 at Ser1101 is r gesting a potential r 302 in rat/mouse IR lin stimulation and I sphorylation by sho sphorylation withour	ne phosphorylation ne metabolic and gr /threonine phosphory phosphorylated by sphorylation of IRS- mediated by PKC0 nechanism for insu S-1 (corresponding has a postive role ir rt-term amino acid/ t inhibition of insulir	motifs that serve as owth-promoting func- orylation sites. Ser3( SIK-2, a member of 1 at Ser612 and Se and results in an inf lin resistance in son to Ser307 of huma n IRS-1 tyrosine pho glucose starvation of n receptor autophos	ates of the insulin recept docking sites for SH2-c ctions of insulin (2-4). IR 07 of IRS-1 is phosphory f the AMPK family (7). The r636/639, respectively (4) nibition of insulin signalir ne models of obesity (10 n IRS-1) is phosphorylation psphorylation. Inhibition of correlates with a decrease phorylation or Akt phosp ibuting to insulin resister	lomain containing S-1 also contains vlated by JNK (5) and he PKC and mTOR 8,9). Phosphorylation ng in the cell, )). red rapidly during of Ser302 se in IRS-1 tyrosine horylation. A defect
Background Refe	2. S 3. M 4. W 5. R 6. G 7. H 8. O 9. D 10. Li	/ang, L.M. et al. (19 ui, L. et al. (1997) J ao, Z. et al. (2002) orike, N. et al. (2003 zes, O.N. et al. (2003	) J. Biol. Chem. 26 (1993) Endocrinolo 93) Science 261, 1 Clin. Invest. 107, J. Biol. Chem. 277, 3) J. Biol. Chem. 27 01) Proc. Natl. Acad , R.A. (1997) Bioch Biol. Chem. 279, 45	7, 22662-22672. ogy 132, 1421-1430 591-1594. 181-189. 48115-48121. 78, 18440-18447. d. Sci. USA 98, 4644 emistry 36, 12939-1 5304-45307.	0-4645.	
Species Reactivity	y Spec	ies reactivity is dete	ermined by testing i	n at least one appro	oved application (e.g., we	estern blot).
Western Blot Buff		DRTANT: For weste Tween® 20 at 4°C			ed primary antibody in 5 <sup>0</sup>	% w/v BSA, 1X TBS,

1/1/24, 8:27 AM Applications Key	Phospho-IRS-1 (Ser302) Antibody (#2384) Datasheet Without Images Cell Signaling Technology 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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