Phospho-IRS-1 (Ser636/639) Antibody							
antibody					Orders:	877-616-CELL (2355) orders@cellsignal.com	
8					Support:	877-678-TECH (8324)	
#2388					Web:	info@cellsignal.com cellsignal.com	
For Research Use Only.	Not for Lleo in	Diagnostic Broc	oduroc	3 Trask I	Lane Danvers Ma	ssachusetts 01923 USA	
Applications: WB	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 180	Source: Rabbit	UniProt ID: #P35568	Entrez-Gene Id: 3667	
Product Usage	Apr	olication			Dilution		
Information	We	stern Blotting			1:1000		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity / Sensiti		Phospho-IRS-1 (Ser636/639) Antibody detects endogenous levels of IRS-1 only when phosphorylated at Ser636/639. This antibody does not cross-react with other related phospho-proteins.					
Source / Purificatio	to re	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding serine 636/639 of human IRS-1. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	conta prote over IKK path of IR	Insulin receptor substrate 1 (IRS-1) is one of the major substrates of the insulin receptor kinase (1). IRS-1 contains multiple tyrosine phosphorylation motifs that serve as docking sites for SH2-domain containing proteins that mediate the metabolic and growth-promoting functions of insulin (2-4). IRS-1 also contains over 30 potential serine/threonine phosphorylation sites. Ser307 of IRS-1 is phosphorylated by JNK (5) and IKK (6) while Ser789 is phosphorylated by SIK-2, a member of the AMPK family (7). The PKC and mTOR pathways mediate phosphorylation of IRS-1 at Ser612 and Ser636/639, respectively (8,9). Phosphorylation of IRS-1 at Ser1101 is mediated by PKC0 and results in an inhibition of insulin signaling in the cell, suggesting a potential mechanism for insulin resistance in some models of obesity (10).					
Background Refere	2. SL 3. M 4. W 5. RL 6. G 7. H 8. O 9. De	 Sun, X.J. et al. (1991) Nature 352, 73-77. Sun, X.J. et al. (1992) J. Biol. Chem. 267, 22662-22672. Myers Jr., M.G. et al. (1993) Endocrinology 132, 1421-1430. Wang, L.M. et al. (1993) Science 261, 1591-1594. Rui, L. et al. (1997) J. Clin. Invest. 107, 181-189. Gao, Z. et al. (2002) J. Biol. Chem. 277, 48115-48121. Horike, N. et al. (2003) J. Biol. Chem. 278, 18440-18447. Ozes, O.N. et al. (2001) Proc. Natl. Acad. Sci. USA 98, 4640-4645. De Fea, K. and Ruth, R.A. (1997) Biochemistry 36, 12939-12947. Li, Y. et al. (2004) J. Biol. Chem. 279, 45304-45307. 					
Species Reactivity	Speci	es reactivity is dete	ermined by testing i	n at least one approv	ed application (e.g.,	western 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:	Western Blotting					
Cross-Reactivity K	nopus Z: zebrafish	an M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster pus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse inea Pig Rab: rabbit All: all species expected					
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