e at -20C	IRS-1 (L3D12) Mouse mAb	H.	Cell Signaling		
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com		
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 180	Source/Isotype: Mouse IgG1	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, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity / Sens	itivity IF	IRS-1 (L3D12) Mouse mAb detects endogenous levels of total IRS-1.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the sequence surrounding Ser612 of human IRS-1.						
Background		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 References		Sun, X.J. et al. (1991) Sun, X.J. et al. (1992) Myers Jr., M.G. et al. (1992) Wang, L.M. et al. (1993) Rui, L. et al. (1997) J. (Gao, Z. et al. (2002) J. Horike, N. et al. (2003) Ozes, O.N. et al. (2001) De Fea, K. and Ruth, F Li, Y. et al. (2004) J. Bi	J. Biol. Chem. 2 1993) Endocrino 3) Science 261, Clin. Invest. 107 Biol. Chem. 27 J. Biol. Chem. 1 2) Proc. Natl. Ac R.A. (1997) Bioc	67, 22662-22672. blogy 132, 1421-1430. 1591-1594. 7, 181-189. 7, 48115-48121. 278, 18440-18447. ad. Sci. USA 98, 4640-4 themistry 36, 12939-125				
Species Reactivity		Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications Key	w	B: 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 						
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IRS-1 (L3D12) Mouse mAb (#3194) Datasheet Without Images Cell Signaling Technology

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