Revision 3		
Phospho-IRS-1 (Ser302) (34C7) Rabbit mAb		Ell Signaling
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Applications: W	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 180	Source/Isotype: Rabbit IgG	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.						
		For a carrier free (BSA and azide free) version of this product see product #99930.						
Specificity/Sen	sitivity	Phospho-IRS-1 (Ser302) (37C7) Rabbit mAb detects endogenous levels of IRS-1 only when phosphorylated at Ser302.						
Source / Purifi	cation	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser302 of mouse IRS-1 (equivalent to Ser307 of human IRS-1).						
Background		1 contains multiple ty containing proteins t also contains over 30 phosphorylated by JN family (7). The PKC ar respectively (8,9). Pho	vrosine phosphoryla hat mediate the me potential serine/th IK (5) and IKK (6) wh nd mTOR pathways psphorylation of IRS	e of the major substrates tion motifs that serve as tabolic and growth-pron reonine phosphorylatior ile Ser789 is phosphoryl mediate phosphorylation -1 at Ser1101 is mediate g a potential mechanism	s docking sites for S noting functions of n sites. Ser307 of IR lated by SIK-2, a me n of IRS-1 at Ser612 rd by PKC0 and resu	H2-domain insulin (2-4). IRS-1 S-1 is mber of the AMPK and Ser636/639, ults in an inhibition		
Background Re	eferences		 J. Biol. Chem. 267, (1993) Endocrinolo 993) Science 261, 11 J. Clin. Invest. 107, 1 J. Biol. Chem. 277, 003) J. Biol. Chem. 21 001) Proc. Natl. Acad n, R.A. (1997) Bioches 	22662-22672. ogy 132, 1421-1430. 591-1594. 81-189. 48115-48121. '8, 18440-18447. d. Sci. USA 98, 4640-4645 emistry 36, 12939-12947.				
Species Reactiv	vity	Species reactivity is d	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot B	Buffer	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 K	ey	W: Western Blotting						
Cross-Reactivit	ty Key	H: Human M: Mouse						
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