

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 180	<b>Source/Isotype:</b> Rabbit IgG	UniProt ID: #P35568	Entrez-Gene Id: 3667
Product Usage Information	2	<b>Application</b> 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/Sensitivity		IRS-1 (59G8) Rabbit mAb detects endogenous levels of total IRS-1 protein. The antibody does not cross- react with IRS-2.				
Species predicted to react based on 100% sequence homology		Pig				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the sequence surrounding Ser307 of human IRS-1.				
Background		1 contains multiple type containing proteins the also contains over 30 phosphorylated by JNI family (7). The PKC and respectively (8,9). Pho	rosine phosphoryla hat mediate the me potential serine/thi K (5) and IKK (6) wh d mTOR pathways i sphorylation of IRS	e of the major substrates tion motifs that serve as tabolic and growth-pron conine phosphorylation ile Ser789 is phosphoryl mediate phosphorylation -1 at Ser1101 is mediate g a potential mechanism	s docking sites for S noting functions of i sites. Ser307 of IRS ated by SIK-2, a me n of IRS-1 at Ser612 d by PKCθ and resu	H2-domain nsulin (2-4). IRS-1 -1 is mber of the AMPK and Ser636/639, lts in an inhibition
Background R	eferences		) J. Biol. Chem. 267, (1993) Endocrinolo 993) Science 261, 19 . Clin. Invest. 107, 1 J. Biol. Chem. 277, 93) J. Biol. Chem. 27 01) Proc. Natl. Acad , R.A. (1997) Bioche	22662-22672. ogy 132, 1421-1430. 591-1594. 81-189. 48115-48121. '8, 18440-18447. d. Sci. USA 98, 4640-4645 omistry 36, 12939-12947.		
Species Reacti	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot 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 Key		W: Western Blotting				
Cross-Reactivity Key		H: Human M: Mouse R: Rat				
Trademarks and Patents		Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.				
		All other trademarks a more information.	are the property of	their respective owners.	Visit cellsignal.com	/trademarks for
Limited Uses				a writing signed by a leg ovided by CST, its affiliate		

terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.