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## Phospho-IRS-1 (Ser318) (D51C3) Rabbit mAb



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Applications: W, IP	Reactivity: H M	<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		Application Western Blotting Immunoprecipitation			<b>Dilution</b> 1:1000 1:50	
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/Sen	sitivity	phosphorylated at Ser	318. Note: Ser318 i	Ab recognizes endogen s the mouse residue; the inducible nonspecific ba	e corresponding hu	man residue is
Species predict based on 100% homology		Rat				
Source / Purific	cation			nunizing animals with a s er318 of mouse IRS-1 pi		eptide
Background		1 contains multiple tyr containing proteins the also contains over 30 p phosphorylated by JNK family (7). The PKC and respectively (8,9). Phos of insulin signaling in t of obesity (10). PKC phosphorylates m stimulation such as TP.	osine phosphoryla at mediate the met ootential serine/thr ( (5) and IKK (6) wh I mTOR pathways r sphorylation of IRS the cell, suggesting ouse IRS-1 at Ser3 A, IL-6, retinoic acid	of the major substrates tion motifs that serve as abolic and growth-prom eonine phosphorylation ile Ser789 is phosphoryl nediate phosphorylation 1 at Ser1101 is mediate a potential mechanism 18 (human Ser323) by in d treatment (11-14) . The ses of insulin effect (14-1	c 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 for insulin resistan sulin receptor activ phosphorylation a	H2-domain nsulin (2-4). IRS-1 5-1 is mber of the AMPK and Ser636/639, lts in an inhibition ce in some models ation or by other
Background Re	eferences		J. Biol. Chem. 267, (1993) Endocrinolo 93) Science 261, 15 Clin. Invest. 107, 1 I. Biol. Chem. 277, 4 3) J. Biol. Chem. 27 01) Proc. Natl. Acad R.A. (1997) Biochem Biol. Chem. 279, 45 (2004) Biochem J 006) J Biol Chem 28 (2004) J Biol Chem 28 (2004) J Biol Chem 28	22662-22672. gy 132, 1421-1430. 91-1594. 81-189. 8115-48121. 8, 18440-18447. 4. sci. USA 98, 4640-4645 mistry 36, 12939-12947. 5304-45307. 78, 105-116. 51, 7060-7067. 23, 9269-9279. 279, 25157-25163. 30, 37393-37399.		
Species Reactiv	/ity	Species reactivity is de	termined by testing	g in at least one approve	ed application (e.g.,	western blot).
Western Blot B	uffer	IMPORTANT: For weste TBS, 0.1% Tween® 20 a		membrane with diluted shaking, overnight.	primary antibody ir	ז 5% w/v BSA, 1X

Applications Key	W: Western Blotting IP: Immunoprecipitation	
Cross-Reactivity Key	H: Human M: Mouse	
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