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Phospho-IRS-1 (Ser612) (C15H5) Rabbit mAb



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Applications: WB	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 180	Source/Isotype: Rabbit IgG	UniProt ID: #P35568	Entrez-Gene Id: 3667
Product Usage Information		plication stern Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20 °C. Do not aliquot the antibody.				
Specificity / Sensitivity		Phospho-IRS-1 (Ser612) (C15H5) Rabbit mAb detects endogenous levels of IRS-1 only when phosphorylated at Ser612.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser612 of mouse IRS-1.				
Background	cont prote over IKK path of IF sugg Pho	ains multiple tyrosin eins that mediate the 30 potential serine/ (6) while Ser789 is p ways mediate phosp 8S-1 at Ser1101 is m gesting a potential m	e phosphorylatice metabolic and threonine phosp bhosphorylated liphorylation of IR nediated by PKC nechanism for instance at Ser612 by N	ne of the major substrate on motifs that serve as d growth-promoting function horylation sites. Ser307 by SIK-2, a member of the S-1 at Ser612 and Ser660 and results in an inhibit sulin resistance in some MAPK downregulates inservels (11).	ocking sites for SH2-cons of insulin (2-4). IR of IRS-1 is phosphory ne AMPK family (7). The 36/639, respectively (4) ition of insulin signalin models of obesity (10)	domain containing RS-1 also contains ylated by JNK (5) and he PKC and mTOR 8,9). Phosphorylation ng in the cell,
Background Refere	2. Si 3. M 4. W 5. Ri 6. G 7. Hi 8. O 9. Di 10. Li	 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. Andreozzi, F. et al. (2004) Endocrinology 145, 2845-57. 				

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 BSA, 1X TBS,

0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key WB: 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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