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# IRS-2 Antibody

Store at -20C  
#4502

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M R	Endogenous	185	Rabbit	#Q9Y4H2	8660
<b>Product Usage Information</b>	<b>Application</b>			<b>Dilution</b>		
	Western Blotting			1:1000		
<b>Storage</b>	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.					
<b>Specificity/Sensitivity</b>	IRS-2 Antibody detects endogenous levels of total IRS-2 protein. It does not cross-react with IRS-1.					
<b>Source / Purification</b>	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the sequence of human IRS-2. Antibodies are purified by protein A and peptide affinity chromatography.					
<b>Background</b>	Insulin Receptor Substrate 2 (IRS-2) is one of the major substrates of the insulin receptor kinase (1). In vertebrates, IRS-2 functions as a scaffolding protein to coordinate separate branches of the Insulin/IGF-signaling cascades (2). IRS-2 is essential for normal nutrient homeostasis because it mediates both peripheral insulin action and the effect of IGF-1 on B-cell growth. Mice lacking IRS-2 fail to maintain sufficient compensatory insulin secretion and develop diabetes as young adults (3).					
<b>Background References</b>	<ol style="list-style-type: none"> <li>Sun, X.J. et al. (1991) <i>Nature</i> 352, 73-77.</li> <li>White, M.F. (2002) <i>Am. J. Physiol. Endocrinol. Metab.</i> 283, E413-E422.</li> <li>Withers, D.J. et al. (1998) <i>Nature</i> 391, 900-904.</li> </ol>					

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Western Blot Buffer</b>	<b>IMPORTANT:</b> 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.
<b>Applications Key</b>	<b>W:</b> Western Blotting
<b>Cross-Reactivity Key</b>	<b>H:</b> Human <b>M:</b> Mouse <b>R:</b> Rat
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