

IRS-2 (L1326) Antibody

Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP	H M R	Endogenous	185	Rabbit	#Q9Y4H2	8660

Product Usage Information**Application**

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:50

Storage

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.

Specificity/Sensitivity

IRS-2 (L1326) Antibody detects endogenous levels of total IRS-2 protein. It does not cross-react with IRS-1.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu1326 of human IRS-2. Antibodies are purified by protein A and peptide affinity chromatography.

Background

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).

Background References

1. Sun, X.J. et al. (1991) *Nature* 352, 73-77.
2. White, M.F. (2002) *Am. J. Physiol. Endocrinol. Metab.* 283, E413-E422.
3. Withers, D.J. et al. (1998) *Nature* 391, 900-904.

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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat

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