

#2852 Store at -20°C

IMP1 Antibody


Cell Signaling
TECHNOLOGY®

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	H	Endogenous	64	Rabbit	#Q9NZI8	10642

Product Usage Information

Application

Western Blotting

Dilution

1:1000

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

IMP1 Antibody detects endogenous levels of total IMP1 protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human IMP1 protein. Antibodies are purified by peptide affinity chromatography.

Background

Insulin-like growth factor-II mRNA-binding proteins (IMPs) belong to a family of zipcode-binding proteins (1,2). Three members of this family, IMP1, IMP2, and IMP3, have been identified (1,2). They contain two RNA recognition motifs, four K homology domains, and were found to function in mRNA localization, turnover, and translation control (1,2). Research studies have implicated these proteins in a variety of physiological and pathological processes, such as growth and development (3), testicular neoplasia (4), and melanocytic neoplasia (5).

Background References

- Nielsen, F.C. et al. (2002) *J Cell Sci* 115, 2087-97.
- Nielsen, J. et al. (2003) *Biochem J* 376, 383-91.
- Hansen, T.V. et al. (2004) *Mol Cell Biol* 24, 4448-64.
- Hammer, N.A. et al. (2005) *Reproduction* 130, 203-12.
- Pryor, J.G. et al. (2008) *Mod Pathol* 21, 431-7.

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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