

#8772 Store at -20°C

Kinectin 1 Antibody


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

Applications: WB	Reactivity: H Mk Dg	Sensitivity: Endogenous	MW (kDa): 160	Source: Rabbit	UniProt ID: #Q86UP2	Entrez-Gene Id: 3895
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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	Kinectin 1 Antibody recognizes endogenous levels of total kinectin 1 protein.
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human kinectin 1 protein. Antibodies are purified by protein A and peptide affinity chromatography.
Background	Kinectin 1 (KTN1) is an endoplasmic reticulum (ER)-enriched integral membrane protein that may be involved in the formation of ER sheets (reviewed in 1). Kinectin 1 binds the microtubule motor protein kinesin and acts as a membrane anchor for kinesin-based organelle trafficking (2). The interaction of kinesin with kinectin 1 has been shown to affect ER-supported focal adhesion assembly (3). Kinectin 1 has also been implicated in translation elongation, as an anchor for the elongation factor complex to the ER (4,5). Research investigators have shown that kinectin 1 expression is altered in multiple human pathologies, including breast cancer (6), hepatocellular carcinoma (HCC) (7), Parkinson's disease (8), and the autoimmune syndrome Behçet's disease (BD) (9,10).
Background References	1. Lin, S. et al. (2012) <i>Int J Biochem Cell Biol</i> 44, 1436-43. 2. Kumar, J. et al. (1995) <i>Science</i> 267, 1834-7. 3. Zhang, X. et al. (2010) <i>J Cell Sci</i> 123, 3901-12. 4. Ong, L.L. et al. (2003) <i>J Biol Chem</i> 278, 32115-23. 5. Ong, L.L. et al. (2006) <i>J Biol Chem</i> 281, 33621-34. 6. Sutton, C.W. et al. (2010) <i>J Proteome Res</i> 9, 3891-902. 7. Wang, H.C. et al. (2004) <i>Biochem Cell Biol</i> 82, 321-7. 8. van Dijk, K.D. et al. (2012) <i>Brain Pathol</i> 22, 485-98. 9. Lu, Y. et al. (2005) <i>Arthritis Res Ther</i> 7, R1133-9. 10. Feng, X.G. et al. (2007) <i>Clin Exp Rheumatol</i> 25, S80-5.
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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