

**Kinectin 1 Antibody**

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H Mk Dg	Endogenous	160	Rabbit	#Q86UP2	3895

**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) *Int J Biochem Cell Biol* 44, 1436-43.
2. Kumar, J. et al. (1995) *Science* 267, 1834-7.
3. Zhang, X. et al. (2010) *J Cell Sci* 123, 3901-12.
4. Ong, L.L. et al. (2003) *J Biol Chem* 278, 32115-23.
5. Ong, L.L. et al. (2006) *J Biol Chem* 281, 33621-34.
6. Sutton, C.W. et al. (2010) *J Proteome Res* 9, 3891-902.
7. Wang, H.C. et al. (2004) *Biochem Cell Biol* 82, 321-7.
8. van Dijk, K.D. et al. (2012) *Brain Pathol* 22, 485-98.
9. Lu, Y. et al. (2005) *Arthritis Res Ther* 7, R1133-9.
10. Feng, X.G. et al. (2007) *Clin Exp Rheumatol* 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**

**W:** Western Blotting

**Cross-Reactivity Key**

**H:** Human **Mk:** Monkey **Dg:** Dog

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