

#13243 Store at -20°C

Kinectin 1 (D5F7J) Rabbit mAb


Cell Signaling
TECHNOLOGY®

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

| Applications: | Reactivity: | Sensitivity: | MW (kDa): | Source/Isotype: | UniProt ID: | Entrez-Gene Id: |
|---------------|-------------|--------------|-----------|-----------------|-------------|-----------------|
| WB, IP, IF-IC | H Mk Dg | Endogenous | 160 | Rabbit IgG | #Q86UP2 | 3895 |

Product Usage Information

Application

Western Blotting
Immunoprecipitation
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:100
1:100

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity / Sensitivity

Kinectin 1 (D5F7J) Rabbit mAb recognizes endogenous levels of total kinectin 1 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val186 of human kinectin 1 protein.

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

WB: Western Blotting **IP:** Immunoprecipitation **IF-IC:** Immunofluorescence (Immunocytochemistry)

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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