

PATL1/PAT1b (D8P1B) Rabbit mAb

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M R Mk	Endogenous	95	Rabbit IgG	#Q86TB9	219988

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, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. *Do not aliquot the antibody.*

Specificity/Sensitivity

PATL1/PAT1b (D8P1B) recognizes endogenous levels of total PATL1/PAT1b protein. This antibody does not cross-react with PATL2.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Tyr432 of human PATL1/PAT1b protein.

Background

PATL1/PAT1b is the human homolog of the evolutionarily conserved Pat1/Mrt1 protein, which was first identified in *Saccharomyces cerevisiae* (1,2). This protein is a critical component of the RNA decay machinery in the cytoplasmic processing bodies (P-bodies), localized foci of mRNA silencing and degradation (3). PATL1/PAT1b interacts with many key components of the RNA decay machinery. These include the 5' decapping proteins DDX6/RCK, DCP1, DCP2, EDC4, and the LSm1-7 ring (3,4) as well as the 3' deadenylation complex of CAF1-CCR4-NOT1 (3).

Background References

1. Hatfield, L. et al. (1996) *Mol Cell Biol* 16, 5830-8.
2. Scheller, N. et al. (2007) *Biochim Biophys Acta* 1773, 1786-92.
3. Ozgur, S. et al. (2010) *Mol Cell Biol* 30, 4308-23.
4. Braun, J.E. et al. (2010) *EMBO J* 29, 2368-80.

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 **M:** Mouse **R:** Rat **Mk:** Monkey

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