

Store at
-20C
#85325**PICK1 (D6W7M) Rabbit mAb**

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

Applications: W, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 50	Source/Isotype: Rabbit IgG	UniProt ID: #Q9NRD5	Entrez-Gene Id: 9463
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Product Usage Information**Application**

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:50

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

PICK1 (D6W7M) Rabbit mAb recognizes endogenous levels of total PICK1 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro20 of human PICK1 protein.

Background

PICK1, or Protein interacting with C-kinase 1, is a cytosolic adaptor protein composed of an N-terminus PDZ domain and a C-terminus BAR domain that allow protein and membrane interactions, respectively (1,2). PICK1 regulates endosomal trafficking and surface expression of AMPA receptors and is therefore involved in synaptic plasticity (3). PICK1 is a negative regulator of Arp2/3-dependent actin polymerization and also for the development of neuronal architecture (4). Finally, increasing evidence indicates that PICK1 expression is upregulated in a number cancers (5), and that PICK1 interacts with proteins involved in the promotion of tumorigenesis such as Ephrin receptors, Coxsackie-adenovirus receptor (CAR), and ErbB2/Her2 (6,7).

Background References

1. Staudinger, J. et al. (1995) *J Cell Biol* 128, 263-71.
2. Jin, W. et al. (2006) *J Neurosci* 26, 2380-90.
3. Xia, J. et al. (1999) *Neuron* 22, 179-87.
4. Rocca, D.L. et al. (2008) *Nat Cell Biol* 10, 259-71.
5. Zhang, B. et al. (2010) *Cancer Sci* 101, 1536-42.
6. Jaulin-Bastard, F. et al. (2001) *J Biol Chem* 276, 15256-63.
7. Excoffon, K.J. et al. (2004) *J Cell Sci* 117, 4401-9.

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 **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat

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