

Store at
-20C
#43239**EPAC2 (D3P3J) 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): 115	Source/Isotype: Rabbit IgG	UniProt ID: #Q8WZA2	Entrez-Gene Id: 11069
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Product Usage Information**Application**

Western Blotting
Immunoprecipitation

Dilution

1:1000
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

EPAC2 (D3P3J) Rabbit mAb recognizes endogenous levels of total EPAC2 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gln975 of human EPAC2 protein.

Background

EPAC1 and EPAC2 (exchange proteins activated by cyclic AMP) are guanine nucleotide exchange factors (GEFs) that catalyze the exchange of GDP for GTP, activating Rap1 and Rap2 small GTPases. Rap activation by EPAC is cAMP-dependent and mediates cAMP signaling in part through protein kinase A (PKA) (reviewed in 1). EPAC signaling plays a significant role in a number of cellular processes including migration and focal adhesion formation (2), exocytosis (3), insulin signaling (4), axon growth and guidance (5) and neurotransmitter release (6).

Background References

1. Bos, J.L. (2006) *Trends Biochem Sci* 31, 680-6.
2. Lyle, K.S. et al. (2008) *Cell Signal* 20, 1104-16.
3. Branham, M.T. et al. (2009) *J Biol Chem* 284, 24825-39.
4. Petersen, R.K. et al. (2008) *Mol Cell Biol* 28, 3804-16.
5. Murray, A.J. and Shewan, D.A. (2008) *Mol Cell Neurosci* 38, 578-88.
6. Ouyang, M. et al. (2008) *Proc Natl Acad Sci USA* 105, 11993-7.

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 nonfat dry milk, 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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