

#43239 Store at -20C

EPAC2 (D3P3J) Rabbit mAb

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP	H M R	Endogenous	115	Rabbit IgG	#Q8WZA2	11069

Product Usage Information

Application

Western Blotting

Dilution

1:1000

Immunoprecipitation

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

WB: Western Blotting IP: Immunoprecipitation

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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