

Rabbit Epac2 Polyclonal Antibody | anti-RAPGEF4 antibody

Epac2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329084	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Bovine(100%), Horse(100%), Sheep(100%), Rabbit(88%), Dog(100%)	ELISA

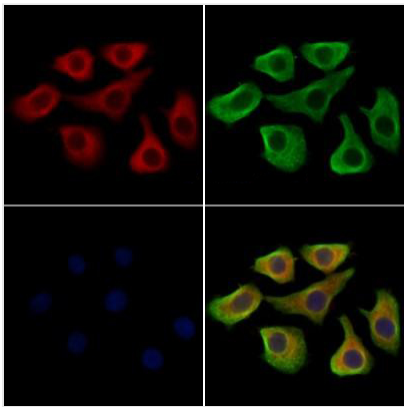
PRODUCT SYNONYMS

Epac2; Polyclonal Antibody; Epac2 Antibody; CAMP GEFII; cAMP regulated guanine nucleotide exchange factor II; cAMP-GEFII; cAMP-regulated guanine nucleotide exchange factor II; CAMPGEFII; CGEF 2; CGEF2; Epac 2; EPAC2; Exchange factor directly activated by cAMP 2; Exchange protein directly activated by cAMP 2; Nbla00496; Putative protein product of Nbla00496; Rap guanine nucleotide exchange factor (GEF) 4; Rap guanine nucleotide exchange factor 4; RAPGEF 4; Rapgef4; RPF4_HUMAN; anti-RAPGEF4 antibody

PRODUCT SPECIFICATIONS

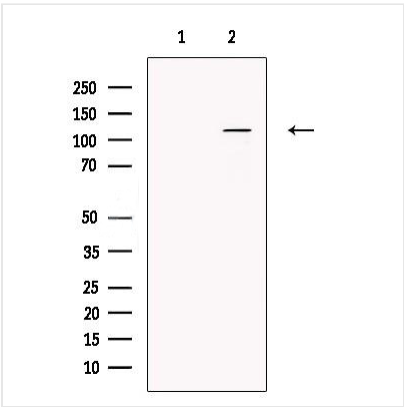
Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Bovine(100%), Horse(100%), Sheep(100%), Rabbit(88%), Dog(100%)
Clonality	Polyclonal
Isotype	IgG
Specificity	Epac2 Antibody detects endogenous levels of total Epac2.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	1011
Applicable Applications for anti-RAPGEF4 antibody	ELISA
Immunogen	A synthesized peptide derived from human Epac2, corresponding to a region within C-terminal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA329084 staining HeLa cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. Samples were then incubated with primary Ab(AAA329084 1:200) and mouse anti-beta tubulin Ab(T0023 1:200) for 1 hour at 37°C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody. The nuclear counter stain is DAPI(blue).



WB (Western Blot)

Western blot analysis of extracts from Mouse brain, using Epac2 Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-RAPGEF4 antibody	Function: Guanine nucleotide exchange factor (GEF) for RAP1A, RAP1B and RAP2A small GTPases that is activated by binding cAMP. Seems not to activate RAB3A. Involved in cAMP-dependent, PKA-independent exocytosis through interaction with RIMS2 (By similarity).
	Subcellular Location: Cytoplasm. Membrane>Peripheral membrane protein.
	Tissue Specificity: Predominantly expressed in brain and adrenal gland. Isoform 2 is expressed in liver. Isoform 1 is expressed in liver at very low levels.
	Subunit Structure: Interacts with RIMS1 and RIMS2. Probably part of a complex with RIMS2 and GTP-activated RAB3A (By similarity).
	Similarity: The N-terminal nucleotide phosphate binding region cAMP 1 has a much lower affinity for cAMP as compared to cAMP 2. The DEP domain is involved in membrane localization independent from regulation by cAMP.

NCBI AND UNIPROT INFORMATION

NCBI GI #	32171491
NCBI GeneID	11069
UniProt Accession #	Q8WZA2
Molecular Weight	Observed Molecular Weight: (Observed)115kD. Predicted Molecular Weight: (Calculated)116kDa.
NCBI Official Full Name	Rap guanine nucleotide exchange factor 4
NCBI Official Synonym Full Names	Rap guanine nucleotide exchange factor 4
NCBI Official Symbol	RAPGEF4
NCBI Official Synonym Symbols	EPAC; CGEF2; EPAC2; EPAC 2; Nbla00496; CAMP-GEFII
NCBI Protein Information	rap guanine nucleotide exchange factor 4
UniProt Protein Name	Rap guanine nucleotide exchange factor 4
UniProt Gene Name	RAPGEF4

UniProt Synonym Gene Names	CGEF2; EPAC2; EPAC 2; cAMP-GEFII
UniProt Entry Name	RPGF4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/epac2-antibody-elisa/329084>