Anti-Epac1 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R015460

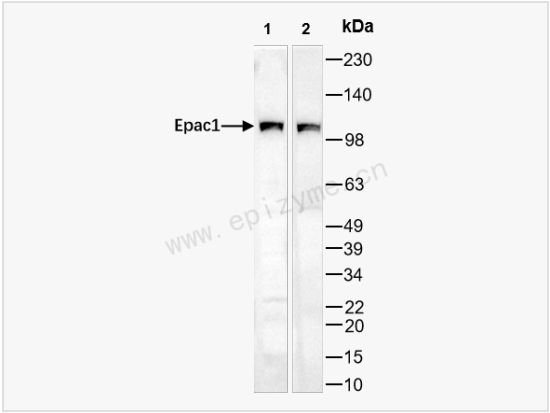
Product Information

Application	WB, IHC-P/IF (Tissue-P), ELISA
Reactivity	Mouse, Rat, Human
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	57T72D78
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Epac1
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Epac1 Rabbit mAb [57T72D78] is for research use only and not for use in diagnostic or therapeutic procedures.

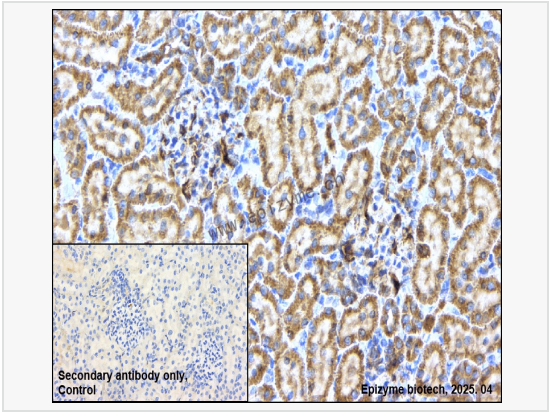
Protein Information

Synonyms	bcm910; CAMP GEFI; cAMP regulated guanine nucleotide exchange factor I; CAMPGEFI; CGEF 1; CGEF1; EPA1; Epac 1; EPAC; EPAC1; Exchange factor directly activated by cAMP 1; Exchange protein directly activated by cAMP 1; MGC21410; RAP guanine nucleotide exchange factor; Rap guanine nucleotide exchange factor (GEF) 3; RAP guanine nucleotide exchange factor 3; Rap1 guanine nucleotide exchange factor directly activated by cAMP; RAPGEF3.
Calculated MW	Calculated MW: 104 kDa; Observed MW: 104 kDa
Uniprot ID	O95398
Gene ID	10411
Background	Guanine nucleotide exchange factor (GEF) for RAP1A and RAP2A small GTPases that is activated by binding cAMP. Through simultaneous binding of PDE3B to RAPGEF3 and PIK3R6 is assembled in a signaling complex in which it activates the PI3K gamma complex and which is involved in angiogenesis. Plays a role in the modulation of the cAMP-induced dynamic control of endothelial barrier function through a pathway that is independent on Rho-mediated signaling. Required for the actin rearrangement at cell-cell junctions, such as stress fibers and junctional actin.
Cellular Location	Endomembrane system

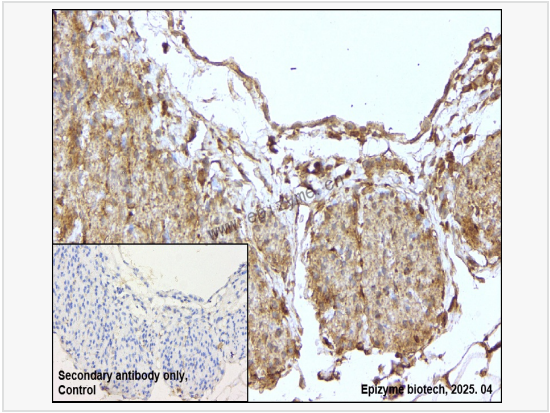
Validation Images



Western Blot - Anti-Epac1 Rabbit mAb [57T72D78]
All lanes: R015460 at 1:1,000 dilution
Lane 1: Mouse brain whole tissue lysates
Lane 2: Rat brain whole tissue lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 104 kDa
Observed band size: 104 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-Epac1 Rabbit mAb [57T72D78]
Sample: Paraformaldehyde-fixed, paraffin embedded rat kidney tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R015460 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-Epac1 Rabbit mAb [57T72D78]
Sample: Paraformaldehyde-fixed, paraffin embedded mouse ovary tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R015460 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.