Anti-RAPGEF5 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R015364

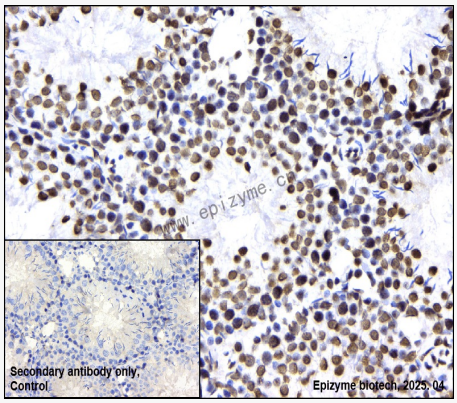
Product Information

Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA
Reactivity	Human, Mouse, Rat
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.	62B58G81
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human RAPGEF5
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-RAPGEF5 Rabbit mAb [62B58G81] is for research use only and not for use in diagnostic or therapeutic procedures.

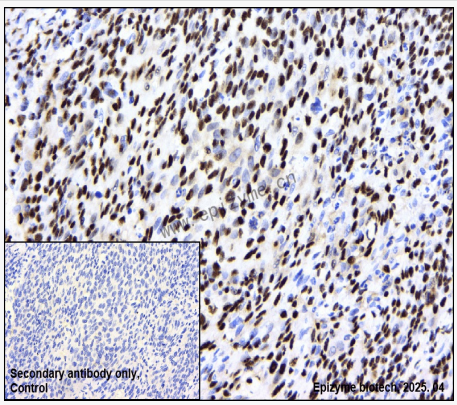
Protein Information

Synonyms	GFR; Guanine nucleotide exchange factor for Rap1; KIAA0277; M Ras regulated Rap GEF; M-Ras-regulated GEF; M-Ras-regulated Rap GEF; MR GEF; MR-GEF; MRas-regulated guanine nucleotide exchange factor; MRGEF; Rap guanine nucleotide exchange factor (GEF) 5; Rap guanine nucleotide exchange factor 5; Rapgef5; Related to Epac; Repac; RPGF5_HUMAN.
Calculated MW	Calculated MW: 68 kDa; Observed MW: 68-75 kDa
Uniprot ID	Q92565, Q8C0Q9, P83900
Gene ID	9771, 217944, 362799
Background	Members of the RAS (see HRAS; MIM 190020) subfamily of GTPases function in signal transduction as GTP/GDP-regulated switches that cycle between inactive GDP- and active GTP-bound states. Guanine nucleotide exchange factors (GEFs), such as RAPGEF5, serve as RAS activators by promoting acquisition of GTP to maintain the active GTP-bound state and are the key link between cell surface receptors and RAS activation (Rebhun et al., 2000 [PubMed 10934204]).[supplied by OMIM, Mar 2008]
Cellular Location	Nucleus.
Tissue Location	Widely expressed with highest levels in brain.

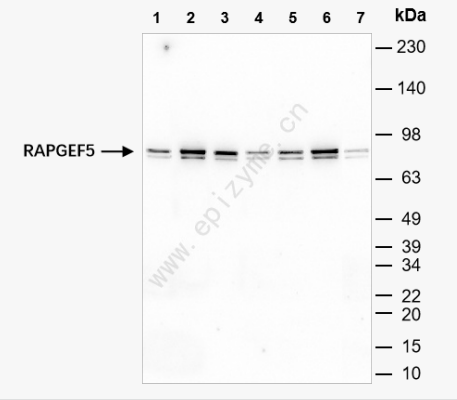
Validation Images



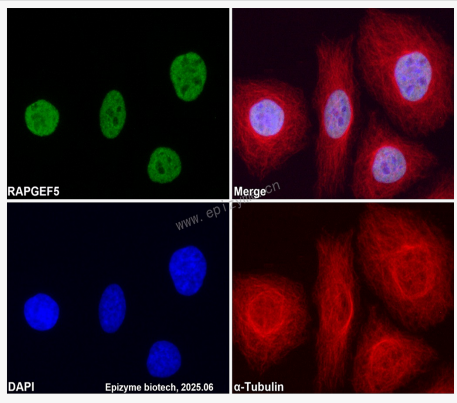
Immunohistochemistry - Anti-RAPGEF5 Rabbit mAb [62B58G81]
Sample: Paraformaldehyde-fixed, paraffin embedded rat testis tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R015364 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,001 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-RAPGEF5 Rabbit mAb [62B58G81]
Sample: Paraformaldehyde-fixed, paraffin embedded human cervical cancer tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R015364 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,001 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.



Western Blot - Anti-RAPGEF5 Rabbit mAb [62B58G81]
All lanes: R015364 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: Huh1 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 3: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 4: T24 (Human bladder cancer epithelial cell) whole cell lysates
Lane 5: U87 (Human malignant glioblastoma epithelial cells) whole cell lysates
Lane 6: Raw264.7 (Mouse mononuclear macrophage leukemia cell) whole cell lysates
Lane 7: PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell 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: 68 kDa
Observed band size: 68-75 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-RAPGEF5 Rabbit mAb [62B58G81]
Sample: HeLa cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R015364 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).