Anti-GEF H1 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R015054

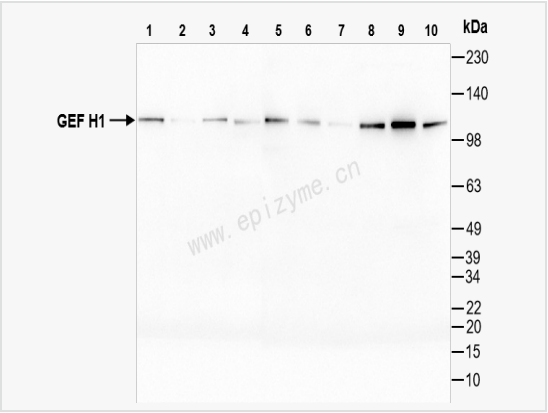
Product Information

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.	47L11M49
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human GEF H1
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-GEF H1 Rabbit mAb [47L11M49] is for research use only and not for use in diagnostic or therapeutic procedures.

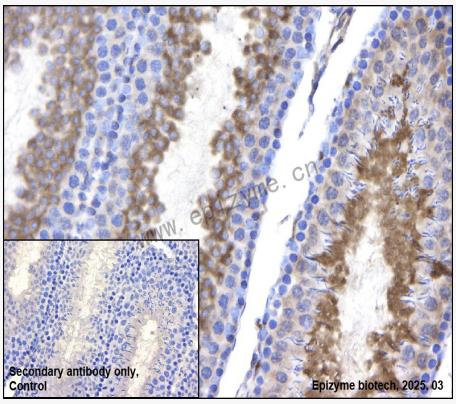
Protein Information

Synonyms	AA408978, ARHG2, ARHG2_HUMAN, ARHGEF 2, ARHGEF-2, ARHGEF2, GEF, GEF H1, GEF-H1, GEFH1, Guanine nucleotide exchange factor H1, KIAA0651, Lbcl1, Lfc, LFP40, MGC95068, Microtubule-regulated Rho-GEF, mKIAA0651, P40, Proliferating cell nucleolar antigen p40, Protein GEF-H1, Rho guanine nucleotide exchange factor 2, rho/rac guanine nucleotide exchange factor (GEF) 2, rho/rac guanine nucleotide exchange factor 2, rho/rac guanine nucleotide exchange factor.
Calculated MW	Calculated MW: 112 kDa; Observed MW: 112 kDa
Uniprot ID	Q92974
Gene ID	9181
Background	Rho GTPases play a fundamental role in numerous cellular processes that are initiated by extracellular stimuli that work through G protein coupled receptors. The encoded protein may form complex with G proteins and stimulate rho-dependent signals. Alternatively spliced transcript variants encoding different isoforms have been identified.[provided by RefSeq, Jun 2009].
Cellular Location	Cytoplasm. Cell junction > tight junction. Golgi apparatus. Cytoplasm > cytoskeleton > spindle. Cell projection > ruffle membrane. Localizes to the tips of cortical microtubules of the mitotic spindle during cell division, and is further released upon microtubule depolymerization. Recruited into membrane ruffles induced by S.flexneri at tight junctions of polarized epithelial cells.

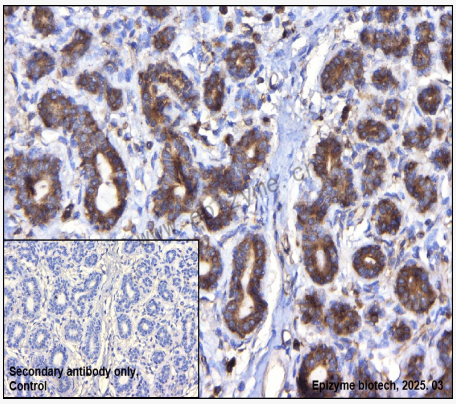
Validation Images



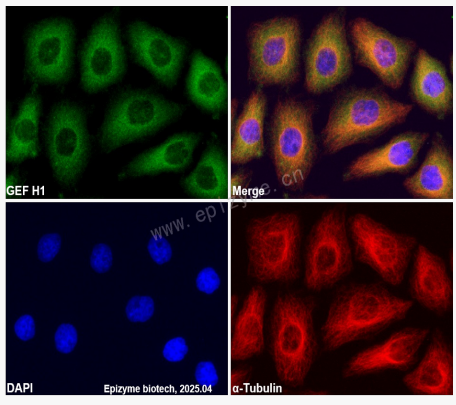
Western Blot - Anti-GEF H1 Rabbit mAb [47L11M49]
All lanes: R015054 at 1:1,000 dilution
Lane 1 : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2 : HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 3 : HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 4 : SW620 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 5 : Jurkat (Human T lymphocytic leukemia cell) whole cell lysates
Lane 6 : 293T (Human embryonic kidney cell) whole cell lysates
Lane 7 : SCC-9 (Human tongue squamous carcinoma epithelial cell) whole cell lysates
Lane 8 : C2C12 (Mouse myoblasts epithelial cell) whole cell lysates
Lane 9 : Raw264.7 (Mouse mononuclear macrophage leukemia cell) whole cell lysates
Lane 10 : 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: 112 kDa
Observed band size: 112 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-GEF H1 Rabbit mAb [47L11M49]
Sample: Paraformaldehyde-fixed, paraffin embedded rat testis tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R015054 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-GEF H1 Rabbit mAb [47L11M49]
Sample: Paraformaldehyde-fixed, paraffin embedded human breast cancer tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R015054 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.



Immunofluorescence - Anti-GEF H1 Rabbit mAb [47L11M49]
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: R015054 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).