Anti-ARFGEF2 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R010671

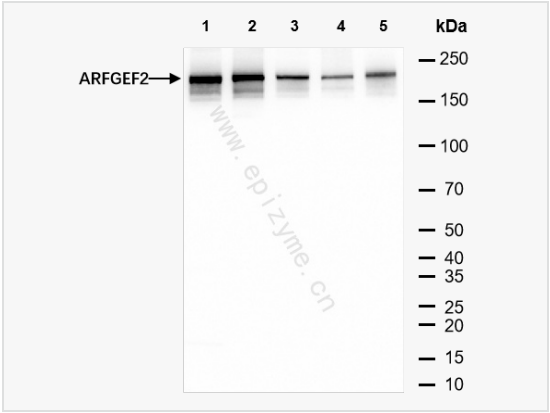
Product Information

Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:3,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	31K20K59
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human ARFGEF2
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-ARFGEF2 Rabbit mAb [31K20K59] is for research use only and not for use in diagnostic or therapeutic procedures.

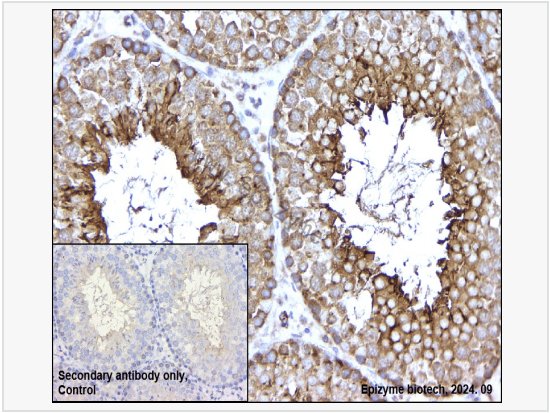
Protein Information

Synonyms	ADP ribosylation factor guanine nucleotide exchange factor 2 (brefeldin A inhibited), ADP ribosylation factor guanine nucleotide exchange factor 2, ARFGEF 2, ARFGEF2, ARFGEP2, BIG 2, BIG2, Brefeldin A inhibited 2, Brefeldin A inhibited GEP 2, Brefeldin A inhibited guanine nucleotide exchange protein 2, dJ1164I10.1, FLJ23723.
Calculated MW	Calculated MW: 202 kDa; Observed MW: 230 kDa
Uniprot ID	Q9Y6D5
Gene ID	10564
Background	ADP-ribosylation factors (ARFs) play an important role in intracellular vesicular trafficking. The protein encoded by this gene is involved in the activation of ARFs by accelerating replacement of bound GDP with GTP and is involved in Golgi transport. It contains a Sec7 domain, which may be responsible for its guanine-nucleotide exchange activity and also brefeldin A inhibition. [provided by RefSeq, Jul 2008]
Cellular Location	Cytoplasm. Membrane. Golgi apparatus. Cytoplasm ? perinuclear region. Golgi apparatus ? trans-Golgi network By similarity. Endosome By similarity. Cytoplasm ? cytoskeleton ? microtubule organizing center ? centrosome. Cell projection ? dendrite By similarity. Cytoplasmic vesicle By similarity. Cell junction ? synapse By similarity. Cytoplasm ? cytoskeleton By similarity. Note: Translocates from cytoplasm to membranes upon cAMP treatment. Localized in recycling endosomes.

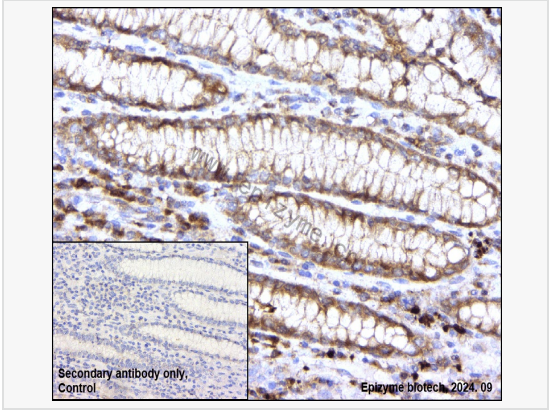
Validation Images



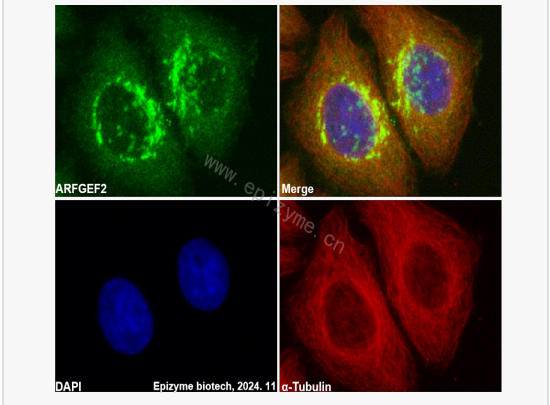
Western Blot - Anti-ARFGEF2 Rabbit mAb [31K20K59]
All lanes: R010671 at 1:3,000 dilution
Lane 1: HEL (Human erythroleukemia cell) whole cell lysates
Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 4: A431 (Human epidermoid teratoma cell line) whole cell lysates
Lane 5: T24 (Human bladder cancer 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: 202 kDa
Observed band size: 230 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-ARFGEF2 Rabbit mAb [31K20K59]
Sample: Paraformaldehyde-fixed, paraffin embedded rat testis tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R010671 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-ARFGEF2 Rabbit mAb [31K20K59]
Sample: Paraformaldehyde-fixed, paraffin embedded human gastric cancer tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R010671 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-ARFGEF2 Rabbit mAb [31K20K59]
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: R010671 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).