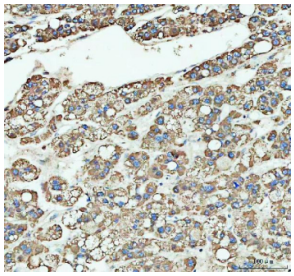
ARHGEF12 Antibody / LARG (RQ8877)

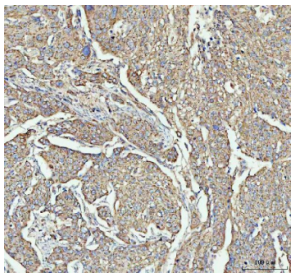
Catalog No.	Formulation	Size
RQ8877	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

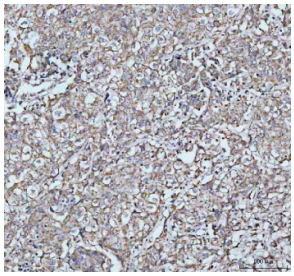
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q9NZN5
Localization	Cytoplasm, cell membrane
Applications	Western blot: 0.5-1 ug/ml Flow cytometry: 1-3ug/ml Direct ELISA: 0.1-0.5ug/ml Immunohistochemistry (FFPE): 2-5ug/ml Immunofluorescence: 5ug/ml Immunoprecipitation: 2ug per 500ug of lysate
Limitations	This ARHGEF12 antibody is available for research use only.



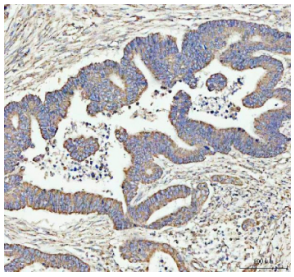
IHC staining of FFPE human liver cancer tissue with ARHGEF12 antibody, HRP-labeled secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



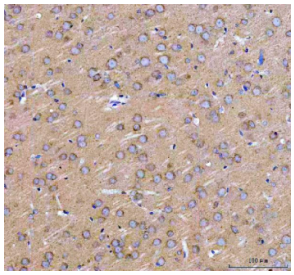
IHC staining of FFPE human squamous cell carcinoma of cervix with ARHGEF12 antibody, HRP-labeled secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



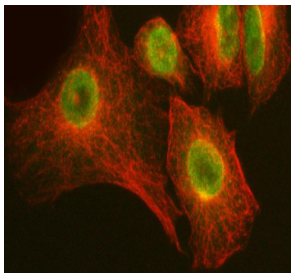
IHC staining of FFPE human parotid acinar cell carcinoma tissue with ARHGEF12 antibody, HRP-labeled secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



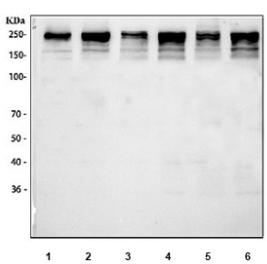
IHC staining of FFPE human colorectal adenocarcinoma tissue with ARHGEF12 antibody, HRP-labeled secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



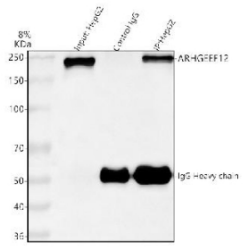
IHC staining of FFPE rat brain tissue with ARHGEF12 antibody, HRP-labeled secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



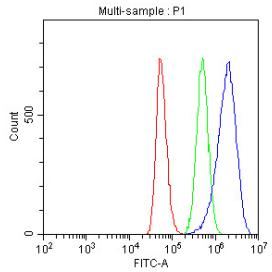
Immunofluorescent staining of FFPE human A549 cells with ARHGEF12 antibody (red) and Beta Tubulin mAb (red). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of 1) human HeLa, 2) human HepG2, 3) rat brain, 4) rat testis, 5) mouse brain and 6) mouse testis tissue lysate with LARG antibody. Predicted molecular weight ~173 kDa but commonly observed at up to 220 kDa, possibly due to phosphorylation.



Immunoprecipitation of ARHGEF12 protein from 500ug of human HepG2 whole cell lysate with 2ug of ARHGEF12 antibody.



Flow cytometry testing of fixed and permeabilized human HepG2 cells with LARG antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= LARG antibody.

Description

ARHGEF12, also known as leukemia-associated Rho guanine nucleotide exchange factor or LARG, is a member of the RhoGEF family involved in the regulation of Rho GTPases. These small signaling proteins are crucial for controlling a variety of cellular processes, including cytoskeletal dynamics, cell polarity, migration, and transcriptional activity. ARHGEF12 acts as a guanine nucleotide exchange factor that specifically activates RhoA, linking it to G protein-coupled receptor signaling pathways and other upstream stimuli.

ARHGEF12 is widely expressed in multiple tissue types and has been implicated in various physiological and pathological conditions, such as embryonic development, wound healing, and cancer progression. Alternative splicing of the ARHGEF12 gene gives rise to several isoforms that may vary in function and cellular localization, making precise detection and characterization essential in research.

A high-quality ARHGEF12 antibody is a critical tool for investigating the diverse roles of this protein in cellular signaling and disease. The ARHGEF12 antibody can be used in western blotting to evaluate protein levels, in immunofluorescence to assess subcellular localization, and in immunohistochemistry for tissue-specific expression profiling. NSJ Bioreagents offers an extensively validated ARHGEF12 antibody designed to provide specificity and reproducibility across multiple experimental platforms.

Application Notes

Optimal dilution of the ARHGEF12 antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids 10-1426) was used as the immunogen for the ARHGEF12 antibody.

Storage

After reconstitution, the ARHGEF12 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Copyright © NSJ Bioreagents. All rights reserved.