

For Research Use Only

ARFRP1 Polyclonal antibody

Catalog Number: 17712-1-AP

1 Publications



Basic Information

Catalog Number:

17712-1-AP

Size:

150ul, Concentration: 300 ug/ml by Nanodrop and 233 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG12036

GenBank Accession Number:

BC092480

GeneID (NCBI):

10139

UNIPROT ID:

Q13795

Full Name:

ADP-ribosylation factor related protein 1

Calculated MW:

201 aa, 23 kDa

Observed MW:

22-25 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB

Species Specificity:

human

Cited Species:

human

Positive Controls:

WB: Jurkat cells,

IHC: human intrahepatic cholangiocarcinoma tissue,

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

ARFRP1, or ADP-ribosylation factor-related protein 1, is a small GTPase that is significantly similar to the ARF family of proteins. It plays a crucial role in intracellular membrane trafficking, particularly in post-Golgi membrane trafficking processes. ARFRP1 is primarily associated with the trans-Golgi compartment and the trans-Golgi network (TGN), where it functions as an essential regulatory factor for the targeting of Arl1 and GRIP domain-containing proteins, such as golgin-97 and golgin-245, onto Golgi membranes. Furthermore, ARFRP1 works in concert with Arl1 and GRIP proteins to facilitate the transport of the vesicular stomatitis virus G protein from the Golgi to the plasma membrane, as well as the retrograde transport of TGN38 and Shiga toxin from endosomes back to the TGN. This protein is also known to function upstream of ARL1 and ARL5, coordinating the recruitment of distinct tethering factors, golgins, and GARP, to the TGN. This mechanism is essential for the delivery of retrograde cargos to the TGN, making ARFRP1 a master regulator of retrograde-carrier tethering to the TGN.

Notable Publications

Author	Pubmed ID	Journal	Application
Zi Gao	36264766	Anal Chem	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

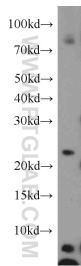
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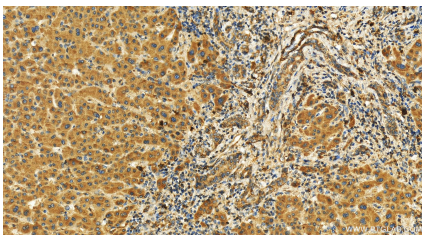
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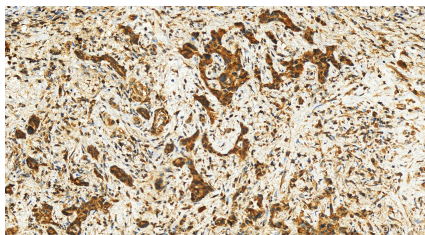
Selected Validation Data



Jurkat cells were subjected to SDS PAGE followed by western blot with 17712-1-AP (ARFRP1 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human intrahepatic cholangiocarcinoma tissue slide using 17712-1-AP (ARFRP1 antibody) at dilution of 1:50 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human intrahepatic cholangiocarcinoma tissue slide using 17712-1-AP (ARFRP1 antibody) at dilution of 1:50 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).