For Research Use Only

RABEPK/p40 Polyclonal antibody

Catalog Number:15105-1-AP

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
15105-1-AP

Size:
800 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG2593

GenBank Accession Number:
BC065725

GeneID (NCBI):
10244

UNIPROT ID:
Q7Z6M1

Full Name:
Rab9 effector protein with kelch motifs

Calculated MW:
41 kDa

Observed MW:
40 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:2000-1:6000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500
IF 1:50-1:500

Applications

Tested Applications:
FC, IF/ICC, IHC, IP, WB, ELISA

Species Specificity:
human

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

Positive Controls:

WB : HepG2 cells, HeLa cells, K-562 cells, Jurkat cells

IP : HeLa cells,

IHC : human lung cancer tissue,

IF : HeLa cells,

Background Information

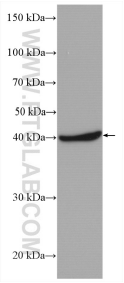
Rab9 GTPase is required for the transport of mannose 6-phosphate receptors from endosomes to the trans-Golgi network in living cells, and in an in vitro system that reconstitutes this process. P40 is an effector of Rab9 that interacts preferentially with the active form of Rab9. p40 does not interact with Rab7 or K-Ras; it also fails to bind Rab9 when it is bound to GDI. The protein is found in cytosol, yet a significant fraction (~30%) is associated with cellular membranes. P40 is a very potent transport factor in that the pure, recombinant protein can stimulate, significantly, an in vitro transport assay that measures transport of mannose 6-phosphate receptors from endosomes to the trans-Golgi network.

Storage

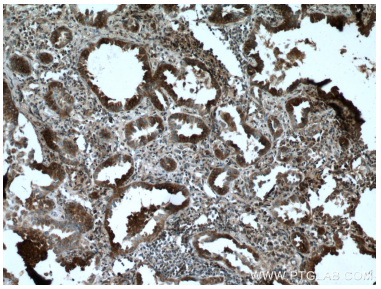
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

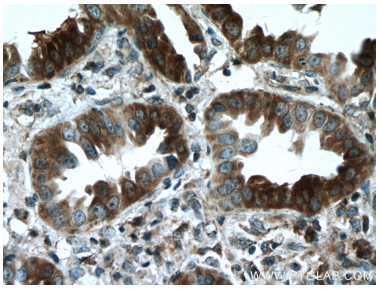
Selected Validation Data



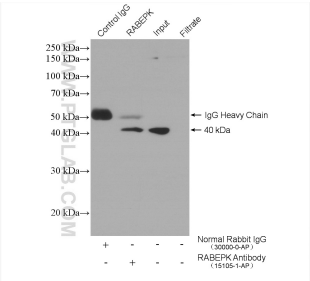
HepG2 cells were subjected to SDS PAGE followed by western blot with 15105-1-AP (RABEPK/p40 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



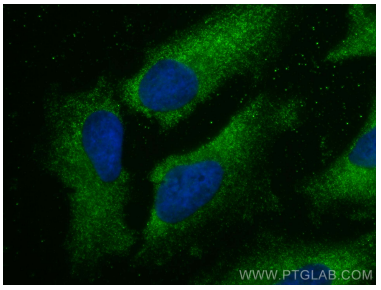
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 15105-1-AP (RABEPK/p40 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



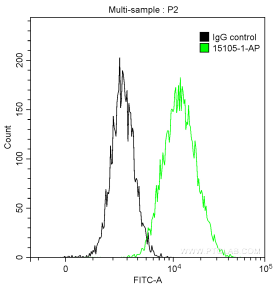
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 15105-1-AP (RABEPK/p40 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-RABEPK/p40 (IP:15105-1-AP, 4ug; Detection:15105-1-AP 1:1000) with HeLa cells lysate 2080 ug.



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using RABEPK/p40 antibody (15105-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1X10^6 HeLa cells were intracellularly stained with 0.2 ug Anti-Human RABEPK/p40 (15105-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (green), and 0.2 ug Control Antibody. Cells were fixed with 90% MeOH.