For Research Use Only

RABEPK/p40 Monoclonal antibody

Catalog Number:66622-1-Ig 1 Publications

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Basic Information

Catalog Number:
66622-1-Ig

Size:
150ul , Concentration: 1400 μg/ml by Nanodrop and 1000 μg/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG7796

GenBank Accession Number:
BC065725

GeneID (NCBI):
10244

Full Name:
Rab9 effector protein with kelch motifs

Calculated MW:
41 kDa

Observed MW:
40 kDa

Purification Method:
Protein A purification

CloneNo.:
1E11A3

Recommended Dilutions:
WB 1:1000-1:6000
IHC 1:500-1:2000
IF 1:50-1:500

Applications

Tested Applications:
IF, IHC, WB,ELISA

Cited Applications:
IHC

Species Specificity:
Human, mouse, rat

Cited Species:
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 : Jurkat cells, HeLa cells,HEK-293 cells,HSCT6 cells,RAW 264.7 cells

IHC : human lung cancer tissue, human colon tissue

IF : A549 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.

Notable Publications

Author	Pubmed ID	Journal	Application
Jun Fu	35949347	Exp Ther Med	IHC

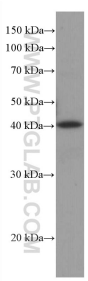
Storage

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

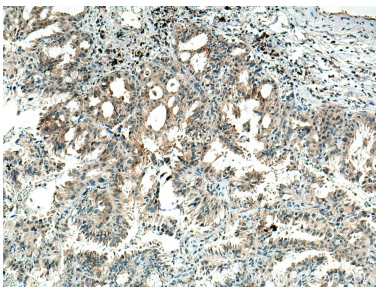
*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

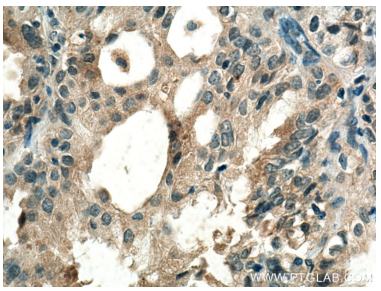
Selected Validation Data



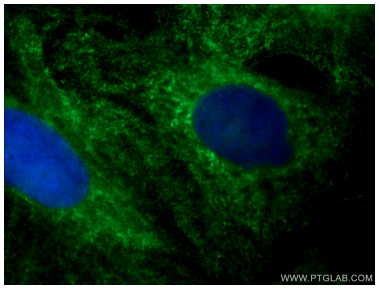
Jurkat cells were subjected to SDS PAGE followed by western blot with 66622-1-Ig (RABEPK/p40 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 66622-1-Ig (RABEPK/p40 antibody) at dilution of 1:1000 (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 66622-1-Ig (RABEPK/p40 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed A549 cells using 66622-1-Ig (RABEPK/p40 antibody) at dilution of 1:100 and CoraLite488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).