

## RABEPK/p40 Monoclonal antibody

Catalog Number: 66622-1-Ig 2 Publications

## Basic Information

<b>Catalog Number:</b> 66622-1-Ig	<b>GenBank Accession Number:</b> BC065725	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul , Concentration: 1400 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 10244	<b>CloneNo.:</b> 1E11A3
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q7Z6M1	<b>Recommended Dilutions:</b> WB 1:1000-1:6000 IHC 1:500-1:2000 IF/ICC 1:200-1:800
<b>Isotype:</b> IgG1	<b>Full Name:</b> Rab9 effector protein with kelch motifs	
<b>Immunogen Catalog Number:</b> AG7796	<b>Calculated MW:</b> 41 kDa	
	<b>Observed MW:</b> 40 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> WB, IHC, IF	<b>WB :</b> Jurkat cells, HeLa cells, HEK-293 cells, HSCT6 cells, RAW 264.7 cells
<b>Species Specificity:</b> human, mouse, rat	<b>IHC :</b> human lung cancer tissue, human colon tissue
<b>Cited Species:</b> human, rat	<b>IF/ICC :</b> A549 cells, HeLa cells

**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

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
Qing Tan	39370874	J Med Virol	WB, IF

## Storage

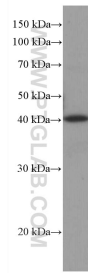
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
 Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

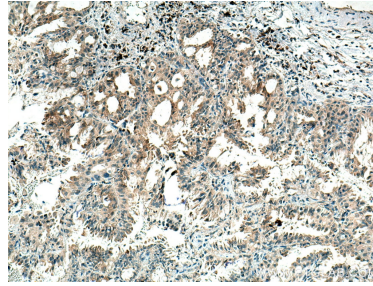
For technical support and original validation data for this product please contact:  
 T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
 E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
 W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

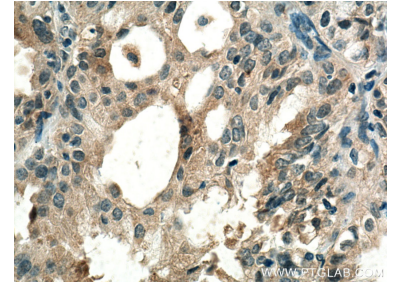
## Selected Validation Data



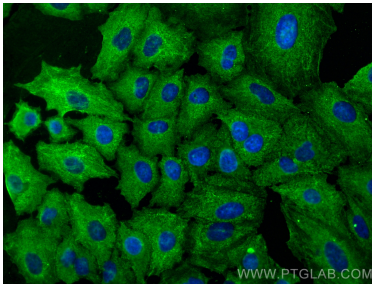
Jurkat cells were subjected to SDS PAGE followed by western blot with 66622-1-Ig (RABEPK/p40 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



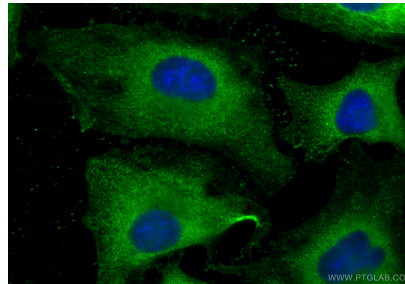
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 66622-1-Ig (RABEPK/p40 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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 Methanol) fixed A549 cells using RABEPK/p40 antibody (66622-1-Ig, Clone: 1E11A3 ) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using RABEPK/p40 antibody (66622-1-Ig, Clone: 1E11A3 ) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1).