

For Research Use Only

RIC8A Monoclonal antibody

Catalog Number: 66625-1-Ig **1 Publications**



Basic Information

Catalog Number: 66625-1-Ig	GenBank Accession Number: BC011821	Purification Method: Protein G purification
Size: 150ul, Concentration: 1400 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 60626	CloneNo.: 1E3B11
Source: Mouse	UNIPROT ID: Q9NPQ8	Recommended Dilutions: WB 1:2000-1:10000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
Isotype: IgG1	Full Name: resistance to inhibitors of cholinesterase 8 homolog A (C. elegans)	IHC 1:250-1:1000 IF-P 1:200-1:800
Immunogen Catalog Number: AG1593	Calculated MW: 60 kDa	
	Observed MW: 65 kDa	

Applications

Tested Applications: WB, IHC, IF-P, IP, ELISA	Positive Controls:
Cited Applications: WB	WB: HeLa cells, A431 cells, HEK-293 cells, Jurkat cells, HSC-T6 cells, RAW 264.7 cells, NIH/3T3 cells
Species Specificity: Human, Rat, Mouse	IP: HEK-293 cells,
Cited Species: human	IHC: mouse brain tissue, human pancreas tissue
Note-IHC: <i>suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</i>	IF-P: mouse brain tissue,

Background Information

RIC8A, also named as synembryn-A, is a Guanine nucleotide exchange factor (GEF), which can activate some, but not all, G-alpha proteins by exchanging bound GDP for free GTP. It is involved in regulation of microtubule pulling forces during mitotic movement of chromosomes by stimulating G(i)-alpha protein, possibly leading to release G(i)-alpha-GTP and NuMA proteins from the NuMA-GPSM2-G(i)-alpha-GDP complex. RIC8A also acts as an activator for G(q)-alpha (GNAQ) protein by enhancing the G(q)-coupled receptor-mediated ERK activation.

Notable Publications

Author	Pubmed ID	Journal	Application
Gonzalo P Solis	38874642	J Clin Invest	WB

Storage

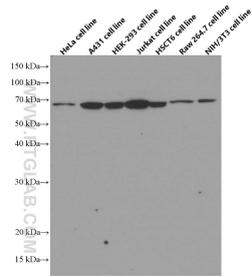
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

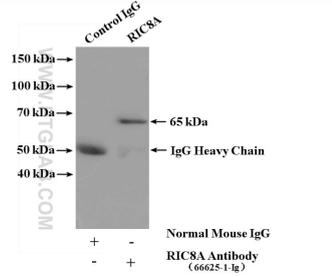
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

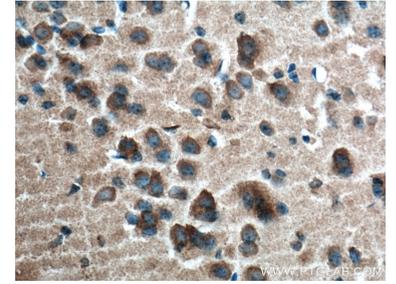
Selected Validation Data



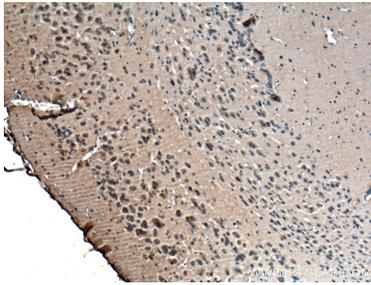
Various lysates were subjected to SDS PAGE followed by western blot with 66625-1-Ig (RIC8A antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



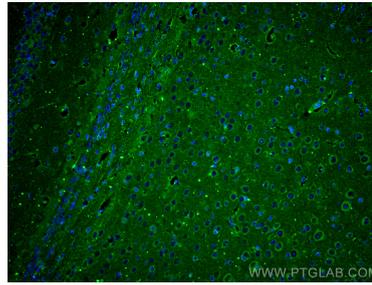
IP result of anti-RIC8A (IP:66625-1-Ig, 5ug; Detection:66625-1-Ig 1:2000) with HEK-293 cells lysate 4000 ug.



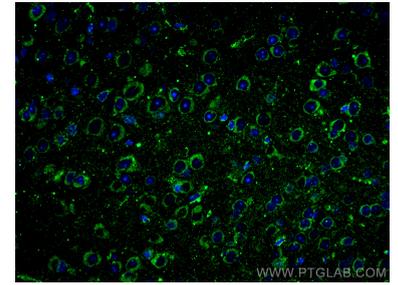
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 66625-1-Ig (RIC8A antibody) at dilution of 1:500 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 66625-1-Ig (RIC8A antibody) at dilution of 1:500 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using RIC8A antibody (66625-1-Ig, Clone: 1E3B11) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using RIC8A antibody (66625-1-Ig, Clone: 1E3B11) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L).