

For Research Use Only

AGO2 Monoclonal antibody

Catalog Number: 67934-1-Ig

Featured Product

50 Publications



Basic Information

Catalog Number:

67934-1-Ig

Size:

150ul, Concentration: 2000 ug/ml by Nanodrop;

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG27772

GenBank Accession Number:

BC007633

GeneID (NCBI):

27161

UNIPROT ID:

Q9UKV8

Full Name:

eukaryotic translation initiation factor 2C, 2

Calculated MW:

97 kDa

Observed MW:

90 kDa

Purification Method:

Protein A purification

CloneNo.:

1G2H12

Recommended Dilutions:

WB 1:1000-1:5000

IHC 1:200-1:800

Applications

Tested Applications:

WB, IHC, FC (Intra), ELISA

Cited Applications:

WB, IHC, IF, IP, RIP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, pig

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 : LNCaP cells, K-562 cells, 4T1 cells, HepG2 cells, HeLa cells, HEK-293 cells, MCF-7 cells, HSC-T6 cells

IHC : human pancreas cancer tissue, human urothelial carcinoma tissue

Background Information

EIF2C2, also named as AGO2, belongs to the argonaute family and Ago subfamily. It is required for RNA-mediated gene silencing (RNAi) by the RNA-induced silencing complex (RISC). The 'minimal RISC' appears to include EIF2C2/AGO2 bound to a short guide RNA such as a microRNA (miRNA) or short interfering RNA (siRNA). EIF2C2 may inhibit translation initiation by binding to the 7-methylguanosine cap, thereby preventing the recruitment of the translation initiation factor eIF4-E. It also inhibit translation initiation via interaction with EIF6, which itself binds to the 60S ribosomal subunit and prevents its association with the 40S ribosomal subunit. EIF2C2 can also upregulate the translation of specific mRNAs under certain growth conditions.

Notable Publications

Author	Pubmed ID	Journal	Application
Bingwei Yang	35349355	Environ Health Perspect	RIP
Shaoyan Cheng	35246494	J Immunol	RIP
Ting Peng	35695407	J Med Chem	WB,IP

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

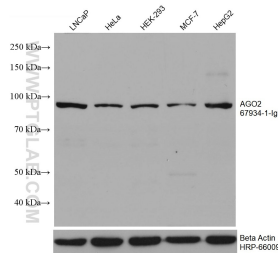
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

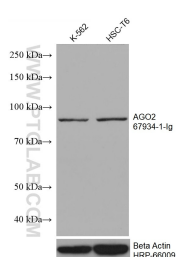
E: proteintech@ptglab.com
W: ptglab.com

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

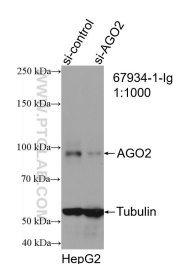
Selected Validation Data



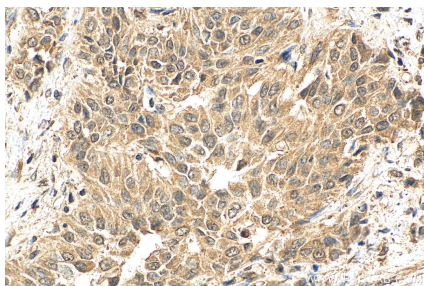
Various lysates were subjected to SDS PAGE followed by western blot with 67934-1-Ig (AGO2 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Beta Actin Monoclonal antibody (HRP-66009) as loading control.



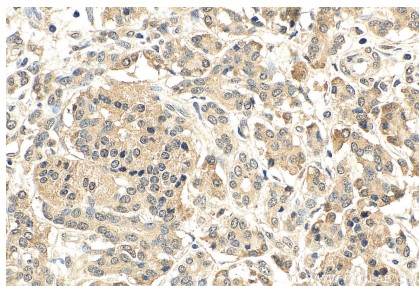
Various lysates were subjected to SDS PAGE followed by western blot with 67934-1-Ig (AGO2 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Beta Actin Monoclonal antibody (HRP-66009) as loading control.



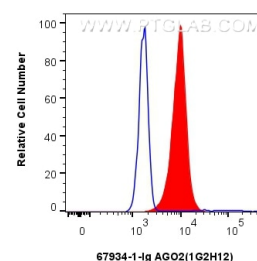
WB result of AGO2 antibody (67934-1-Ig; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-AGO2 transfected HepG2 cells.



Immunohistochemical analysis of paraffin-embedded human urothelial carcinoma tissue slide using 67934-1-Ig (AGO2 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 67934-1-Ig (AGO2 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1x10⁶ HeLa cells were intracellularly stained with 0.25 ug AGO2 Monoclonal antibody (67934-1-Ig, Clone:1G2H12) and Coralite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1)(red), or 0.25 ug Mouse IgG1 isotype control Mouse McAb (66360-1-Ig, Clone: 1F8D3) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).