

For Research Use Only

# AGO2 Monoclonal antibody, PBS Only

Catalog Number: 67934-1-PBS

Featured Product



## Basic Information

Catalog Number:

67934-1-PBS

Size:

6494 ug/ml

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

## Applications

Tested Applications:

WB, IHC, FC (Intra), ELISA

Species Specificity:

human, mouse, rat

## 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 inhibits 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.

## Storage

Storage:

Store at -80°C.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:

PBS Only

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

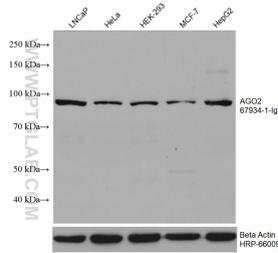
T: 4006900926

E: Proteintech-CN@ptglab.com

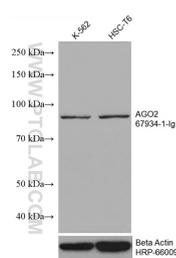
W: ptgcn.com

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

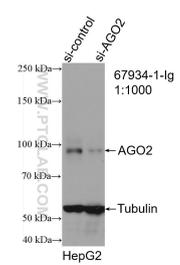
## Selected Validation Data



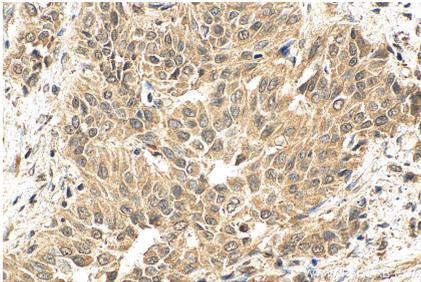
Various lysates were subjected to SDS PAGE followed by western blot with 67934-1-Ig (AGO2 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Beta Actin Monoclonal antibody (HRP-66009) as loading control. This data was developed using the same antibody clone with 67934-1-PBS in a different storage buffer formulation.



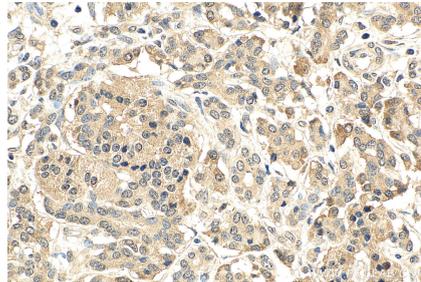
Various lysates were subjected to SDS PAGE followed by western blot with 67934-1-Ig (AGO2 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Beta Actin Monoclonal antibody (HRP-66009) as loading control. This data was developed using the same antibody clone with 67934-1-PBS in a different storage buffer formulation.



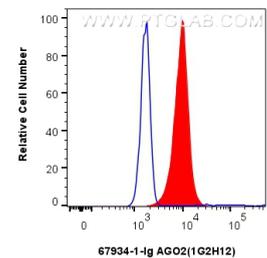
WB result of AGO2 antibody (67934-1-Ig; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-AGO2 transfected HepG2 cells. This data was developed using the same antibody clone with 67934-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 67934-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 67934-1-PBS in a different storage buffer formulation.



1x10<sup>6</sup> 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). This data was developed using the same antibody clone with 67934-1-PBS in a different storage buffer