

For Research Use Only

# AGO2 Monoclonal antibody

Catalog Number: 66720-1-Ig **5 Publications**



## Basic Information

<b>Catalog Number:</b> 66720-1-Ig	<b>GenBank Accession Number:</b> BC007633	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1000 µg/ml	<b>GeneID (NCBI):</b> 27161	<b>CloneNo.:</b> 4E2B2
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q9UKV8	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:50-1:500
<b>Isotype:</b> IgG2b	<b>Full Name:</b> eukaryotic translation initiation factor 2C, 2	
<b>Immunogen Catalog Number:</b> AG17723	<b>Calculated MW:</b> 97 kDa	
	<b>Observed MW:</b> 97 kDa	

## Applications

<b>Tested Applications:</b> IHC, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> IP, RIP	<b>WB :</b> HeLa cells, HEK-293 cells, MCF-7 cells, HepG2 cells, Jurkat cells
<b>Species Specificity:</b> Human	<b>IHC :</b> human pancreas cancer tissue, human urothelial carcinoma tissue
<b>Cited Species:</b> human	

**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

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.

## Notable Publications

Author	Pubmed ID	Journal	Application
Lanjuan Shen	35333985	J Bone Miner Metab	RIP
Hong-Yu Zhang	33816255	Front Oncol	IP
Hao Zhang	35799265	J Orthop Surg Res	RIP

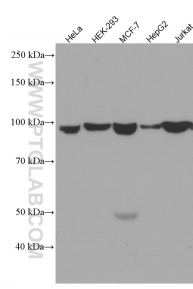
## Storage

**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

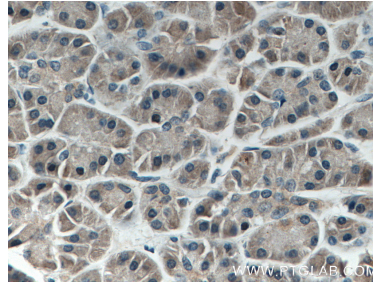
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 66720-1-Ig (AGO2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 66720-1-Ig (AGO2 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).