

For Research Use Only

AGO2 Monoclonal antibody

Catalog Number: 66720-1-Ig **3 Publications**



Basic Information

Catalog Number: 66720-1-Ig	GenBank Accession Number: BC007633	Purification Method: Protein A purification
Size: 150ul , Concentration: 1000 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 27161	CloneNo.: 4E2B2
Source: Mouse	Full Name: eukaryotic translation initiation factor 2C, 2	Recommended Dilutions: WB 1:500-1:2000 IHC 1:50-1:500
Isotype: IgG2b	Calculated MW: 97 kDa	
Immunogen Catalog Number: AG17723	Observed MW: 97 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls:
Cited Applications: IP, RIP	WB : HeLa cells, HEK-293 cells, MCF-7 cells, HepG2 cells, Jurkat cells
Species Specificity: Human	IHC : human pancreas cancer tissue, human urothelial carcinoma tissue
Cited Species: 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 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
Hong-Yu Zhang	33816255	Front Oncol	IP
Bingtao Liu	33892093	Cell Signal	IP
Shangwen Xiao	32519740	Biosci Rep	RIP

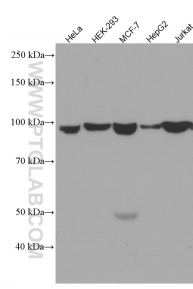
Storage

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

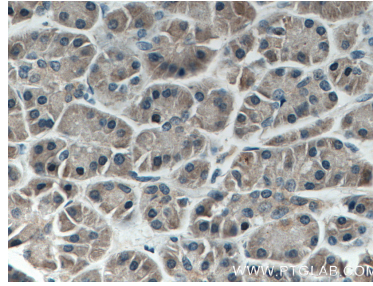
For technical support and original validation data for this product please contact:
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Selected Validation Data



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)).