For Research Use Only

AGO2 Polyclonal antibody

Catalog Number:10686-1-AP 63 Publications

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Basic Information

Catalog Number:
10686-1-AP

Size:
150ul , Concentration: 160 μg/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG1032

GenBank Accession Number:
BC007633

GeneID (NCBI):
27161

Full Name:
eukaryotic translation initiation factor 2C, 2

Calculated MW:
97 kDa

Observed MW:
94-97 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:200-1:1000

Applications

Tested Applications:
WB, ELISA

Cited Applications:
CLIP, IP, RIP, WB

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, fish

Positive Controls:

WB : HEK-293 cells, K-562 cells

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. This antibody is specific to EIF2C2. EIF2C2 exists two isoforms and molecular weight of isoforms are 97 kDa and 94 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Yu Qiu	34410682	J Cell Mol Med	RIP
Xiaoxiang Chen	30250022	Cell Death Dis	
Shuo Ma	34556632	Cell Death Dis	RIP

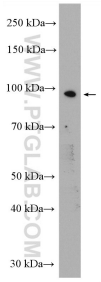
Storage

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

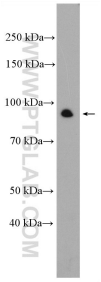
*** 20ul sizes contain 0.1% BSA

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

Selected Validation Data



HEK-293 cells were subjected to SDS PAGE followed by western blot with 10686-1-AP (AGO2 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



K-562 cells were subjected to SDS PAGE followed by western blot with 10686-1-AP (AGO2 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.