

EIF2C Rabbit pAb

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Catalog # AP58739

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9UL18
Reactivity	Mouse
Predicted	Rat, Pig, Human, Chicken, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	97214
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human EIF2C1/Ago1
Epitope Specificity	431-530/984
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm, P-body.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Ago1 belongs to the argonaute family and contains 1 PAZ and 1 Piwi domain. It is required for G1 arrest and mating in response to nitrogen starvation. It is also known as cell cycle control protein through its regulation of cytokinesis and cell cycle checkpoints occurs downstream of dcr1. It is required, indirectly, for regulated hyperphosphorylation of cdc2. Ago 1 also has a role in the RNA interference (RNAi) pathway which is important for heterochromatin formation and accurate chromosome segregation. It has been shown to be non-essential for siRNA-directed target RNA cleavage but is needed for the production of mature miRNA that affects miRNA-directed RNA cleavage.

Additional Information

Gene ID	26523
Other Names	Protein argonaute-1, Argonaute1, hAgo1, Argonaute RISC catalytic component 1, Eukaryotic translation initiation factor 2C 1, eIF-2C 1, eIF2C 1, Putative RNA-binding protein Q99, AGO1, EIF2C1
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

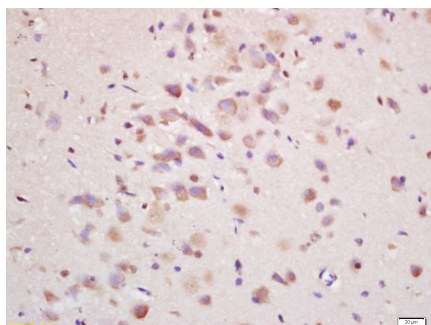
Protein Information

Name	AGO1
Synonyms	EIF2C1
Function	Required for RNA-mediated gene silencing (RNAi). Binds to short RNAs such as microRNAs (miRNAs) or short interfering RNAs (siRNAs), and represses the translation of mRNAs which are complementary to them. Lacks endonuclease activity and does not appear to cleave target mRNAs. Also required for transcriptional gene silencing (TGS) of promoter regions which are complementary to bound short antigenic RNAs (agRNAs).
Cellular Location	Cytoplasm, P-body

Background

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Images



Tissue/cell: mouse brain tissue; 4%
Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling
bathing for 15min; Block endogenous peroxidase by 3%
Hydrogen peroxide for 30min; Blocking buffer (normal
goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-EIF2C Polyclonal Antibody,
Unconjugated(AP58739) 1:200, overnight at 4°C, followed
by conjugation to the secondary antibody(SP-0023) and
DAB(C-0010) staining

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.