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AGO1 Recombinant Rabbit mAb

Catalog # AP98707

Product Information

Application	WB, IHC-P, IHC-F, IF, IP, E
Primary Accession	Q9UL18
Other Accession	Q9UL18
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Recombinant
Calculated MW	97214
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the argonaute family. Ago subfamily.Contains 1 PAZ domain.Contains 1 Piwi domain.
SUBUNIT	Interacts with DDB1, DDX5, DDX6, DHX30, DHX36, DDX47, DICER1, EIF2C2/AGO2, ELAVL1, HNRNPF, IGF2BP1, ILF3, IMP8, MATR3, MOV10, PABPC1, PRMT5, RBM4, SART3, TNRC6B, UPF1 and YBX1. Associates with polysomes and messenger ribonucleoproteins (mNRPs). Interacts with LIMD1, WTIP and AJUBA.
Background Descriptions	This gene encodes a member of the argonaute family of proteins, which associate with small RNAs and have important roles in RNA interference (RNAi) and RNA silencing. This protein binds to microRNAs (miRNAs) or small interfering RNAs (siRNAs) and represses translation of mRNAs that are complementary to them. It is also involved in transcriptional gene silencing (TGS) of promoter regions that are complementary to bound short antigene RNAs (agRNAs), as well as in the degradation of miRNA-bound mRNA targets. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. A recent study showed this gene to be an authentic stop codon readthrough target, and that its mRNA could give rise to an additional C-terminally extended isoform by use of an alternative in-frame translation termination codon. [provided by RefSeq, Nov 2015]

Additional Information

Gene ID	26523
Other Names	AGO1_HUMAN; AGO1; Argonaute1; hAgo1; Argonaute RISC catalytic component 1; Eukaryotic translation initiation factor 2C 1 (eIF-2C 1 | eIF2C 1); Putative RNA-binding protein Q99; EIF2C1; EIF2C; GERP95; NEDLBAS; Q99; argonaute RISC component 1; eukaryotic translation initiation factor 2C, 1; argonaute 1; Protein argonaute-1 (Argonaute1) (hAgo1) (Eukaryotic translation initiation factor 2C 1) (eIF-2C 1) (eIF2C 1) (Putative RNA-binding protein Q99)
Dilution	IHC-P=1:50-200,IHC-F=1:50-200,WB=1:500-2000,IF=1:50-200,ELISA=1:5000-10

	000,IP=1:50-200
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 antigene RNAs (agRNAs).
Cellular Location	Cytoplasm, P-body

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