

Argonaute 4 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP54875

Product Information

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q9HCK5
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	97097
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Argonaute 4/eIF2C4
Epitope Specificity	401-500/861
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.
SIMILARITY	Belongs to the argonaute family. Ago subfamily. Contains 1 PAZ domain. Contains 1 Piwi domain. Cellular localization.
SUBUNIT	Interacts with EIF4B, IMP8, PRMT5, TNRC6A and TNRC6B.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a member of the Argonaute family of proteins which play a role in RNA interference. The encoded protein is highly basic containing PAZ and PIWI domains, and it may play a role in short-interfering-RNA-mediated gene silencing. This gene is located on chromosome 1 in a cluster of closely related family members including argonaute 3, and eukaryotic translation initiation factor 2C, 1. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	192670
Other Names	Protein argonaute-4 {ECO:0000255 HAMAP-Rule:MF_03033}, Argonaute4 {ECO:0000255 HAMAP-Rule:MF_03033}, hAgo4, Argonaute RISC catalytic component 4, Eukaryotic translation initiation factor 2C 4 {ECO:0000255 HAMAP-Rule:MF_03033}, eIF-2C 4 {ECO:0000255 HAMAP-Rule:MF_03033}, eIF2C 4 {ECO:0000255 HAMAP-Rule:MF_03033}, AGO4, EIF2C4, KIAA1567
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce

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.
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Protein Information

Name	AGO4
Synonyms	EIF2C4, KIAA1567
Function	Required for RNA-mediated gene silencing (RNAi). Binds to short RNAs such as microRNAs (miRNAs) 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 RNA-directed transcription and replication of the human hepatitis delta virus (HDV).
Cellular Location	Cytoplasm, P-body {ECO:0000255 HAMAP- Rule:MF_03033, ECO:0000269 PubMed:16081698, ECO:0000269 PubMed:19167051}

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