10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Argonaute 3 Rabbit pAb

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Catalog # AP54874

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q9H9G7
Predicted	Human, Mouse, Rat, Chicken, Dog, Pig, Horse, Rabbit, Zebrafish
Host	Rabbit
Clonality	Polyclonal
Calculated MW	97360
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Argonaute 3/eIF2C3
Epitope Specificity	251-350/860
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.
SUBUNIT	Interacts with EIF4B, IMP8, PRMT5 and TNRC6B. Interacts with APOBEC3F, APOBEC3G and APOBEC3H.
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, contains a PAZ domain and a PIWI domain, and may play a role in short-interfering-RNA-mediated gene silencing. This gene is located on chromosome 1 in a tandem cluster of closely related family members including argonaute 4 and eukaryotic translation initiation factor 2C, 1. Two transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	192669
Other Names	Protein argonaute-3 {ECO:0000255|HAMAP-Rule:MF_03032}, Argonaute3 {ECO:0000255|HAMAP-Rule:MF_03032}, hAgo3, 3.1.26.n2, Argonaute RISC catalytic component 3, Eukaryotic translation initiation factor 2C 3 {ECO:0000255|HAMAP-Rule:MF_03032}, eIF-2C 3 {ECO:0000255|HAMAP-Rule:MF_03032}, eIF2C 3 {ECO:0000255|HAMAP-Rule:MF_03032}, AGO3, EIF2C3
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000

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	AGO3
Synonyms	EIF2C3
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. Proposed to be involved in stabilization of small RNA derivates (siRNA) derived from processed RNA polymerase III-transcribed Alu repeats containing a DR2 retinoic acid response element (RARE) in stem cells and in the subsequent siRNA- dependent degradation of a subset of RNA polymerase II-transcribed coding mRNAs by recruiting a mRNA decapping complex involving EDC4. Possesses RNA slicer activity but only on select RNAs bearing 5'- and 3'-flanking sequences to the region of guide-target complementarity (PubMed:29040713).
Cellular Location	Cytoplasm, P-body {ECO:0000255|HAMAP- Rule:MF_03032, ECO:0000269|PubMed:16081698}

Background

This gene encodes a member of the Argonaute family of proteins which play a role in RNA interference. The encoded protein is highly basic, contains a PAZ domain and a PIWI domain, and may play a role in short-interfering-RNA-mediated gene silencing. This gene is located on chromosome 1 in a tandem cluster of closely related family members including argonaute 4 and eukaryotic translation initiation factor 2C, 1. Two transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Jul 2008]