

Anti-Argonaute 4 Picoband Antibody
Catalog # ABO12664**Specification**

Anti-Argonaute 4 Picoband Antibody - Product Information

Application	WB
Primary Accession	Q9HCK5
Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Protein argonaute-4(AGO4) detection. Tested with WB in Human;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Argonaute 4 Picoband Antibody - 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

Calculated MW

97097 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Human, Rat

Subcellular Localization

Cytoplasm, P-body .

Protein Name

Protein argonaute-4

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Na₃.

Immunogen

A synthetic peptide corresponding to a sequence at the N-terminus of human Argonaute 4 (114-153aa KDQTFKVSQWVSVSLQLLLEALAGHLNEVPDDSVQALD), identical to the related mouse sequence.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins.

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Anti-Argonaute 4 Picoband Antibody - 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).

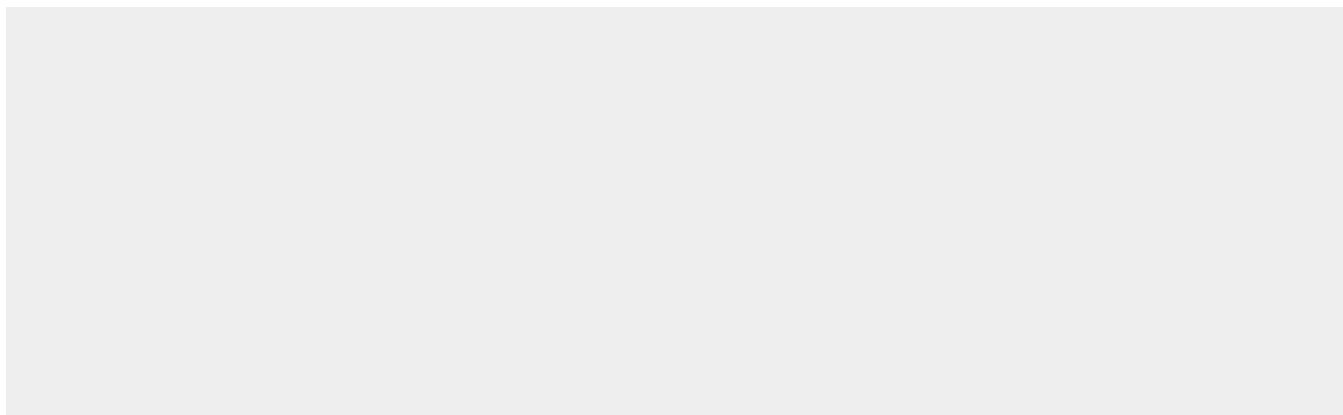
Cellular Location

Cytoplasm, P-body {ECO:0000255|HAMAP- Rule:MF_03033, ECO:0000269|PubMed:16081698, ECO:0000269|PubMed:19167051}

Anti-Argonaute 4 Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-Argonaute 4 Picoband Antibody - Images



Western blot analysis of Argonaute 4 expression in rat thymus extract (lane 1) and 22RV1 whole cell lysates (lane 2). Argonaute 4 at 115KD was detected using rabbit anti- Argonaute 4 Antigen Affinity purified polyclonal antibody (Catalog # ABO12664) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method .

Anti-Argonaute 4 Picoband Antibody - Background

AGO4 (Argonaute 4) is also known as EIF2C4. 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.