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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 NaN3.

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

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Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins.

Storage	**At -20˚C for one year. After r˚Constitution, 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 hapatitis 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 Cytomety
- Cell Culture

Anti-Argonaute 4 Picoband Antibody - Images

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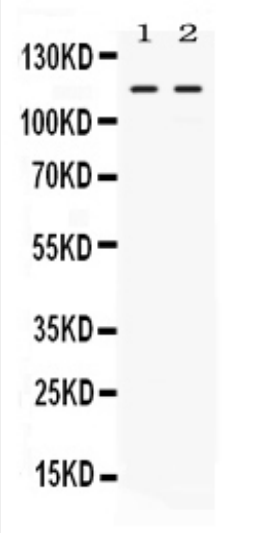

Western blot analysis of Argonaute 4 expression in rat thymus extract (lane 1) and 22RV1 whole cell lysates (lane 2). Argonaute 4 at 115KD was detected using rabbit anti- Argonaute 4 Antigen Affinity purified polyclonal antibody (Catalog # ABO12664) at 0.5 ??g/mL. The blot was developed using chemiluminescence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