

Anti-Argonaute 4 Picoband Antibody

Catalog # ABO12664

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.

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
Application Details	Western blot, 0.1-0.5 µg/ml, Human, Rat
Subcellular Localization	Cytoplasm, P-body .
Source	Eukaryota
Protein Name	Protein argonaute-4
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
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.

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}

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.

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.

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