Rabbit anti-Human AGO1 Polyclonal Antibody | anti-AGO1 antibody

Anti-AGO1 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126086	**Rabbit**	**Human**	**ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot**

PRODUCT SYNONYMS

AGO1; Polyclonal Antibody; Anti-AGO1 Antibody Picoband; anti-AGO1 antibody

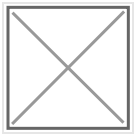
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-AGO1 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human AGO1 recombinant protein (Position: K131-R171).
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.

IMAGES

FCM/FACS (Flow Cytometry)
Figure 3. Flow Cytometry analysis of MCF-7 cells using anti-AGO1 antibody (AAA126086).Overlay histogram showing MCF-7 cells stained with AAA126086 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-AGO1 Antibody (AAA126086, 1 ug/1x10^6 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10^6) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

IF (Immunofluorescence)
Figure 2. IF analysis of AGO1 using anti-AGO1 antibody (AAA126086).AGO1 was detected in an immunocytochemical section of Caco-2 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-AGO1 Antibody (AAA126086) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)
Figure 1. Western blot analysis of AGO1 using anti-AGO1 antibody (AAA126086).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human K562 whole cell lysates,Lane 2: human Caco-2 whole cell lysates,Lane 3: human 293T whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-AGO1 antigen affinity purified polyclonal antibody (#AAA126086) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for AGO1 at approximately 97 kDa. The expected band size for AGO1 is at 97 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-AGO1 antibody	This gene encodes a member of the argonaute family of proteins, which associate with small RNAs and have important roles in RNA interference (RNAi) and RNA silencing. This protein binds to microRNAs (miRNAs) or small interfering RNAs (siRNAs) and represses translation of mRNAs that are complementary to them. It is also involved in transcriptional gene silencing (TGS) of promoter regions that are complementary to bound short antigene RNAs (agRNAs), as well as in the degradation of miRNA-bound mRNA targets. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. A recent study showed this gene to be an authentic stop codon readthrough target, and that its mRNA could give rise to an additional C-terminally extended isoform by use of an alternative in-frame translation termination codon.
Product Categories/Family for anti-AGO1 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	6912352
NCBI GeneID	26523
NCBI Accession #	NP_036331.1
NCBI GenBank Nucleotide #	NM_012199.2
UniProt Accession #	Q9UL18; Q5TA57; Q6P4S0
Molecular Weight	97,214 Da
NCBI Official Full Name	protein argonaute-1
NCBI Official Synonym Full Names	argonaute RISC catalytic component 1
NCBI Official Symbol	AGO1
NCBI Official Synonym Symbols	Q99; EIF2C; EIF2C1; GERP95
NCBI Protein Information	protein argonaute-1; hAgo1; eIF2C 1; eIF-2C 1; argonaute1; argonaute 1; putative RNA-binding protein Q99; Golgi Endoplasmic Reticulum protein 95 kDa; eukaryotic translation initiation factor 2C, 1
UniProt Protein Name	Protein argonaute-1
UniProt Gene Name	**AGO1**
UniProt Synonym Gene Names	EIF2C1; Argonaute1; hAgo1; eIF-2C 1; eIF2C 1
UniProt Entry Name	AGO1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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