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Goat Anti-EIF2C1 / AGO1 Antibody

Peptide-affinity purified goat antibody
Catalog # AF1359a

Specification

Goat Anti-EIF2C1 / AGO1 Antibody - Product Information

Application	**WB**
Primary Accession	Q9UL18
Other Accession	NP_036331, 26523
Reactivity	**Human**
Predicted	**Mouse, Rat, Dog**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**97214**

Goat Anti-EIF2C1 / AGO1 Antibody - Additional Information

Gene ID 26523

Other Names
Protein argonaute-1, Argonaute1, hAgo1, Argonaute RISC catalytic component 1, Eukaryotic translation initiation factor 2C 1, eIF-2C 1, eIF2C 1, Putative RNA-binding protein Q99, AGO1, EIF2C1

Format
0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Goat Anti-EIF2C1 / AGO1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-EIF2C1 / AGO1 Antibody - Protein Information

Name AGO1

Synonyms EIF2C1

Function
Required for RNA-mediated gene silencing (RNAi). Binds to short RNAs such as microRNAs (miRNAs) or short interfering RNAs (siRNAs), 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 transcriptional gene silencing (TGS) of promoter regions which are complementary to bound short antigene RNAs (agRNAs).

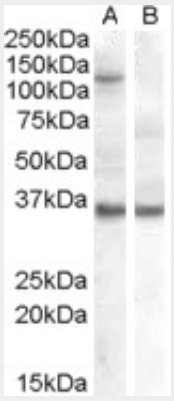
Cellular Location
Cytoplasm, P-body

Goat Anti-EIF2C1 / AGO1 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

Goat Anti-EIF2C1 / AGO1 Antibody - Images



HEK293 overexpressing EIF2C1 and probed with AF1359a (non-transfected HEK293 in lane B).

Goat Anti-EIF2C1 / AGO1 Antibody - 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, and contains a PAZ domain and a PIWI domain. It may interact with dicer1 and 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 argonaute 4.

Goat Anti-EIF2C1 / AGO1 Antibody - References

Association of a common AGO1 variant with lung cancer risk: A two-stage case-control study. Kim JS, et al. Mol Carcinog, 2010 Oct. PMID 20721975.
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Black carbon exposures, blood pressure, and interactions with single nucleotide polymorphisms in MicroRNA processing genes. Wilker EH, et al. Environ Health Perspect, 2010 Jul. PMID 20211803.

Distinct passenger strand and mRNA cleavage activities of human Argonaute proteins. Wang B, et al. Nat Struct Mol Biol, 2009 Dec. PMID 19946268.
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