

Rabbit anti-Human, Mouse Protein argonaute-2 Polyclonal Antibody | anti-AGO2 antibody

Rabbit anti-human Protein argonaute-2 polyclonal Antibody

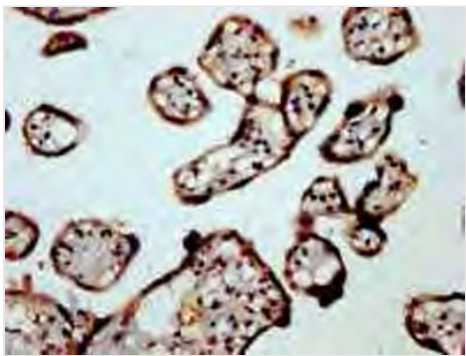
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA118544	Rabbit	Human, Mouse	Chromatin Immunoprecipitation, Immunoprecipitation, Immunohistochemistry, Western Blot, ELISA

PRODUCT SYNONYMS

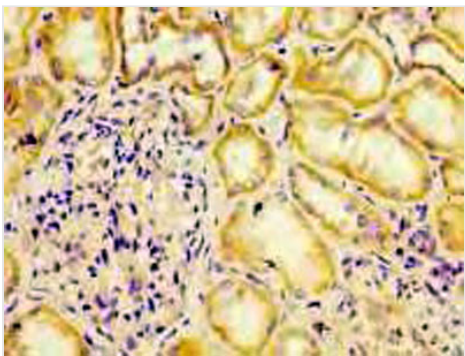
Protein argonaute-2; Polyclonal Antibody; Rabbit anti-human Protein argonaute-2 polyclonal Antibody; Argonaute RISC catalytic component 2; Eukaryotic translation initiation factor 2C 2; PAZ Piwi domain protein; Protein slicer; EIF2C2; AGO2; anti-AGO2 antibody

PRODUCT SPECIFICATIONS

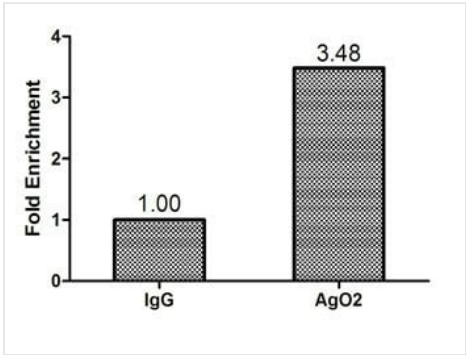
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	>95%, Protein G purified
Form/Format	Liquid
Applicable Applications for anti-AGO2 antibody	ChIP (Chromatin immunoprecipitation), IHC (Immunohistochemistry), WB (Western Blot), ELISA
Immunogen	Recombinant Human Protein argonaute-2 protein (517-818AA)
Conjugate	Non-conjugated
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Species	Homo sapiens (Human)
Research Area	Epigenetics and Nuclear Signaling
Target Names	AGO2
Preparation and Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.



IHC (Immunohistochemistry)
IHC image of AAA118544 diluted at 1:1200 and staining in paraffin-embedded human placenta tissue performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



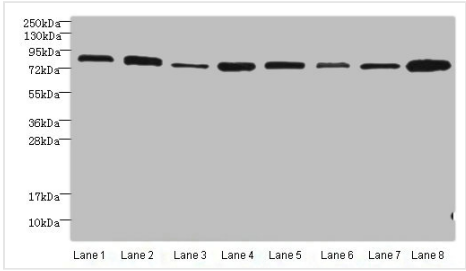
IHC (Immunohistochemistry)
Immunohistochemistry of paraffin-embedded human kidney tissue using AAA118544 at dilution of 1:100



ChIP (Chromatin Immunoprecipitation)
Chromatin Immunoprecipitation HeLa(1.1¹⁰⁶)were cross-linked with formaldehyde, sonicated, and immunoprecipitated with 4ug anti-Ago2 or a control normal rabbit IgG . The resulting ChIP DNA was quantified using real-time PCR with primers against the SLC1A5 promoter.



IHC (Immunohistochemistry)
IHC image of AAA118544 diluted at 1:1200 and staining in paraffin-embedded human brain tissue performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



WB (Western Blot)
Western blotAll lanes: Protein argonaute-2 antibody at 2ug/mlLane 1: A549 whole cell lysateLane 2: Jurkats whole cell lysateLane 3: MCF-7 whole cell lysateLane 4: HepG2 whole cell lysateLane 5: Raw264.7 whole cell lysateLane 6: K562 whole cell lysateLane 7: Mouse liver tissueLane 8: Mouse kidney tissueGoat polyclonal to Rabbit IgG at 1/10000 dilutionPredicted band size: 98,94 kDaObserved band size: 90 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-AGO2 antibody

Required for RNA-mediated gene silencing (RNAi) by the RNA-induced silencing complex (RISC). The minimal RISC appears to include AGO2 bound to a short guide RNA such as a microRNA (miRNA) or short interfering RNA (siRNA). These guide RNAs direct RISC to complementary mRNAs that are targets for RISC-mediated gene silencing. The precise mechanism of gene silencing depends on the degree of complementarity between the miRNA or siRNA and its target. Binding of RISC to a perfectly complementary mRNA generally results in silencing due to endonucleolytic cleavage of the mRNA specifically by AGO2. Binding of RISC to a partially complementary mRNA results in silencing through inhibition of translation, and this is independent of endonuclease activity. May inhibit translation initiation by binding to the 7- methylguanosine cap, thereby preventing the recruitment of the translation initiation factor eIF4-E. May also inhibit translation initiation via interaction with EIF6, which itself binds to the 60S ribosomal subunit and prevents its association with the 40S ribosomal subunit. The inhibition of translational initiation leads to the accumulation of the affected mRNA in cytoplasmic processing bodies (P-bodies), where mRNA degradation may subsequently occur. In some cases RISC-mediated translational repression is also observed for miRNAs that perfectly match the 3' untranslated region (3'-UTR). Can also up-regulate the translation of specific mRNAs under certain growth conditions. Binds to the AU element of the 3-UTR of the TNF (TNF-alpha) mRNA and upregulates translation under conditions of serum starvation. Also required for transcriptional gene silencing (TGS), in which short RNAs known as antigene RNAs or agRNAs direct the transcriptional repression of complementary promoter regions.

NCBI AND UNIPROT INFORMATION

NCBI GI #	257467482
NCBI GeneID	27161
NCBI Accession #	NP_001158095.1
NCBI GenBank Nucleotide #	NM_001164623.1
UniProt Accession #	Q9UKV8; Q8TCZ5; Q8WV58; Q96ID1
NCBI Official Full Name	protein argonaute-2 isoform 2
NCBI Official Synonym Full Names	argonaute 2, RISC catalytic component
NCBI Official Symbol	AGO2
NCBI Official Synonym Symbols	Q10; EIF2C2
NCBI Protein Information	protein argonaute-2
UniProt Protein Name	Protein argonaute-2
UniProt Gene Name	AGO2
UniProt Synonym Gene Names	EIF2C2; Argonaute2; hAgo2; eIF-2C 2; eIF2C 2; PPD
UniProt Entry Name	AGO2_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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Online datasheet: <https://stage.aaabiotech.com/polyclonal/protein-argonaute-2-antibody-chromatin-immunoprecipitation-immunohistochemistry-western-blot-elisa/118544>