Argonaute 2 Rabbit mAb

Catalog No: #52156

Package Size: #52156-1 50ul #52156-2 100ul



Orders: order@signalwayantibody.com Support: tech@signalwayantibody.com

Description

Product Name	Argonaute 2 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	S04-5H0
Isotype	Rabbit IgG
Purification	Affinity Purified
Applications	WB
Species Reactivity	Human,Mouse,Rat
Immunogen Description	A synthetic peptide of human Argonaute-2
Conjugates	Unconjugated
Modification	Unmodification
Other Names	PPD; Q10; CASC7; EIF2C2; LINC00980
Accession No.	Swiss-Prot:Q9UKV8GeneID:27161
Uniprot	Q9UKV8
GeneID	27161
Calculated MW	Calculated MW: 97 kDa; Observed MW: 97 kDa
Concentration	0.3 mg/ml
Formulation	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Application Details

WB: 1/1000;

Images



Western blot detection of Argonaute-2 in K562,MCF7,Hela cell lysates using Argonaute-2 Rabbit mAb(1:500 diluted).Predicted band size:97kDa.Observed band size:97kDa. Swiss-Prot Acc.Q9UKV8.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 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 up-regulates translation under conditions of serum starvation. Also required for transcriptional gene silencing (TGS), in which short RNAs known as antigene RNAs direct the transcriptional repression of complementary promoter regions.

Note: This product is for in vitro research use only