Product Name: **KD-Validated Argonaute RISC Catalytic Component 2 Recombinant Rabbit Monoclonal Antibody**
Catalog #: **KVAb00257**
For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 97.2kDa

Antigen Information

Gene Name	AGO2
Alternative Names	AGO2; Argonaute RISC Catalytic Component 2; LINC00980; EIF2C2; Q10; Cancer Susceptibility Candidate 7 (Non-Protein Coding); Eukaryotic Translation Initiation Factor 2C, 2; PAZ Piwi Domain Protein; Protein Argonaute-2; Protein Slicer; HAGO2; CASC7; PPD; Eukaryotic Translation Initiation Factor 2C 2; Long Intergenic Non-Protein Coding RNA 980; Argonaute 2, RISC Catalytic Component; EC 3.1.26.N2; EC 3.1.26.N1; Argonaute 2; Argonaute2; EIF-2C 2; LESKRES; EIF2C 2; HAgo2
Gene ID	27161.0
SwissProt ID	Q9UKV8
Immunogen	A synthesized peptide derived from human Argonaute 2

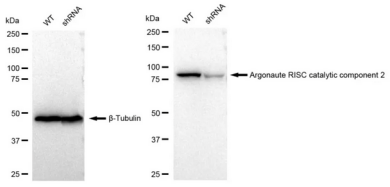
Background

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. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2009]

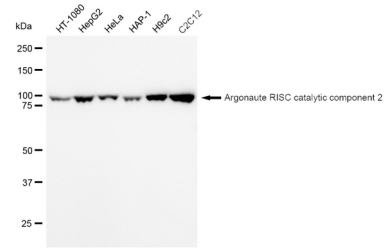
Research Area

Epigenetics and Nuclear Signaling

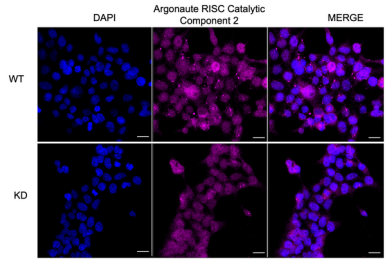
Image Data



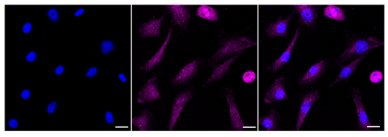
Western blotting analysis using Argonaute RISC catalytic component 2 antibody (KVAb00257). Argonaute RISC catalytic component 2 expression in wild type (WT) and Argonaute RISC catalytic component 2 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with Argonaute RISC catalytic component 2 antibody (KVAb00257, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



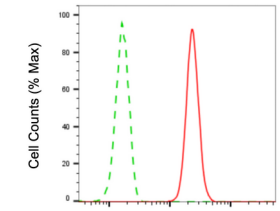
Western blotting analysis using Argonaute RISC catalytic component 2 antibody (KVAb00257). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Argonaute RISC catalytic component 2 antibody (KVAb00257, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HeLa cells using argonaute RISC catalytic component 2 antibody (KVAb00257, 1:1,000), Top panel: wild-type (WT); Bottom panal: argonaute RISC catalytic component 2 shRNA knockdown (KD). Nuclei were stained blue with DAPI; Argonaute RISC catalytic component 2 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.



Immunocytochemical staining of C2C12 cells with Argonaute RISC catalytic component 2 antibody (KVAb00257, 1:1,000). Nuclei were stained blue with DAPI; Argonaute RISC catalytic component 2 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.



Argonaute RISC catalytic component 2-Alexa Fluor® 647

Flow cytometric analysis of argonaute RISC catalytic component 2 expression in C2C12 cells using argonaute RISC catalytic component 2 antibody (KVAb00257, 1:2,000). Green, isotype control; red, argonaute RISC catalytic component 2.