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KD-Validated Anti-AGO3 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI2333

Specification

KD-Validated Anti-AGO3 Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	Q9H9G7
Reactivity	**Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 97 kDa , observed, 97 kDa KDa**
Gene Name	**AGO3**
Aliases	**AGO3; Argonaute RISC Catalytic Component 3; EIF2C3; Eukaryotic Translation Initiation Factor 2C, 3; Protein Argonaute-3; FLJ12765; HAGO3; HAgo3; Eukaryotic Translation Initiation Factor 2C; Argonaute 3, RISC Catalytic Component; EC 3.1.26.N2; Argonaute 3; Argonaute3; EIF-2C 3; EIF2C 3**
Immunogen	**A synthesized peptide derived from human EIF2C3**

KD-Validated Anti-AGO3 Rabbit Monoclonal Antibody - Additional Information

Gene ID	**192669**

Other Names
Protein argonaute-3 {ECO:0000255|HAMAP-Rule:MF_03032}, Argonaute3 {ECO:0000255|HAMAP-Rule:MF_03032}, hAgo3, 3.1.26.n2, Argonaute RISC catalytic component 3, Eukaryotic translation initiation factor 2C 3 {ECO:0000255|HAMAP-Rule:MF_03032}, eIF-2C 3 {ECO:0000255|HAMAP-Rule:MF_03032}, eIF2C 3 {ECO:0000255|HAMAP-Rule:MF_03032}, AGO3, EIF2C3

KD-Validated Anti-AGO3 Rabbit Monoclonal Antibody - Protein Information

Name AGO3

Synonyms EIF2C3

Function
Required for RNA-mediated gene silencing (RNAi). Binds to short RNAs such as microRNAs (miRNAs) and represses the translation of mRNAs which are complementary to them. Proposed to be involved in stabilization of small RNA derivates (siRNA) derived from processed RNA polymerase III-transcribed Alu repeats containing a DR2 retinoic acid response element (RARE) in stem cells and in the subsequent siRNA- dependent degradation of a subset of RNA polymerase II-transcribed coding mRNAs by recruiting a mRNA decapping complex involving EDC4. Possesses RNA slicer activity but only on select RNAs bearing 5'- and 3'-flanking sequences to the region of

guide-target complementarity (PubMed:29040713).

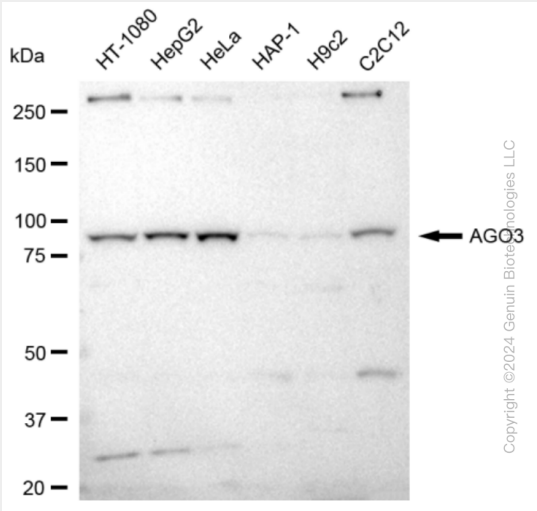
Cellular Location
Cytoplasm, P-body {ECO:0000255|HAMAP- Rule:MF_03032, ECO:0000269|PubMed:16081698}

KD-Validated Anti-AGO3 Rabbit Monoclonal Antibody - Protocols

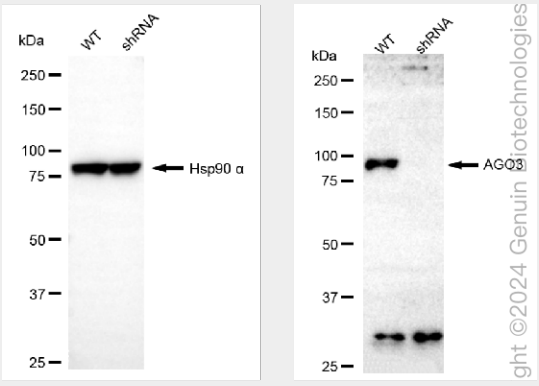
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-AGO3 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-AGO3 antibody (Cat#AGI2333). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-AGO3 antibody (Cat#AGI2333, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



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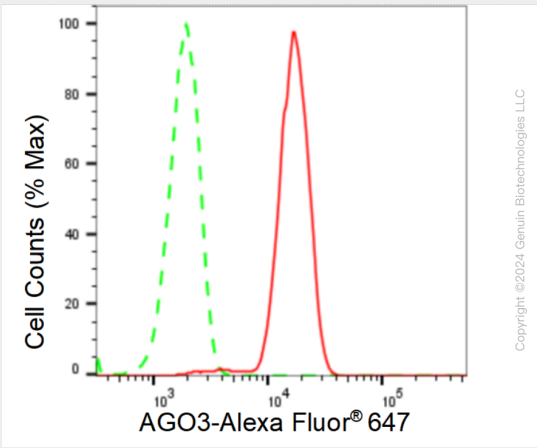
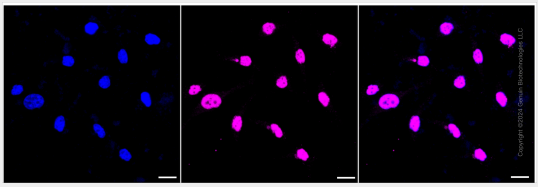
Western blotting analysis using anti-AGO3 antibody (Cat#AGI2333). AGO3 expression in wild-type (WT) and AGO3 shRNA knockdown (KD) HT-1080 cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-AGO3 antibody (Cat#AGI2333, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of AGO3 expression in HeLa cells using AGO3 antibody (Cat#AGI2333, 1:2,000). Green, isotype control; red, AGO3.



Immunocytochemical staining of Hela cells with AGO3 antibody (Cat#AGI2333, 1:1,000). Nuclei were stained blue with DAPI; AGO3 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.