

## Argonaute 2 Rabbit mAb

Catalog No: #49353

Package Size: #49353-1 50ul #49353-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

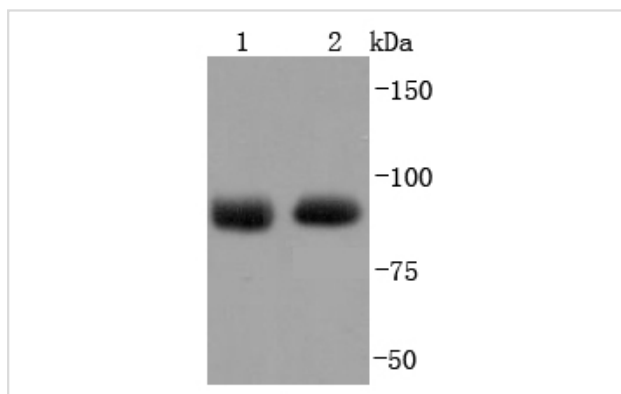
## Description

Product Name	Argonaute 2 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JF0992
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, IP, FC
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Other Names	Ago 2 antibody AGO2_HUMAN antibody Argonaute 2 antibody argonaute 2, RISC catalytic component antibody Argonaute RISC catalytic component 2 antibody Argonaute2 antibody CTA-204B4.6 antibody dAgo2 antibody eIF 2C 2 antibody eIF-2C 2 antibody eIF2C 2 antibody Eif2c2 antibody Eukaryotic translation initiation factor 2C 2 antibody Eukaryotic translation initiation factor 2C subunit 2 antibody hAgo2 antibody MGC3183 antibody PAZ Piwi domain protein antibody PPD antibody Protein argonaute-2 antibody Protein slicer antibody Q10 antibody Slicer protein antibody
Accession No.	Swiss-Prot#:Q9UKV8
Uniprot	Q9UKV8
GeneID	27161;
Calculated MW	97 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

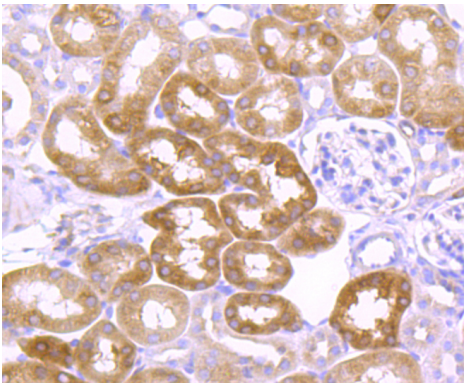
## Application Details

WB: 1:1,000-1:2,000 IHC: 1:50-1:200 ICC: 1:50-1:200FC: 1:50-1:100

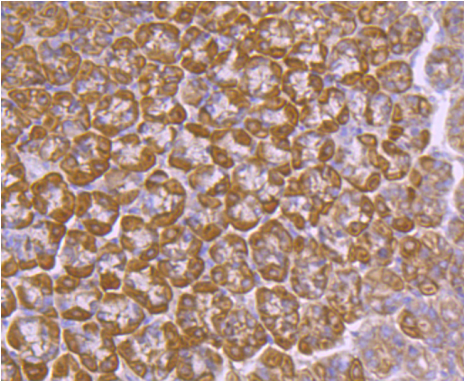
## Images



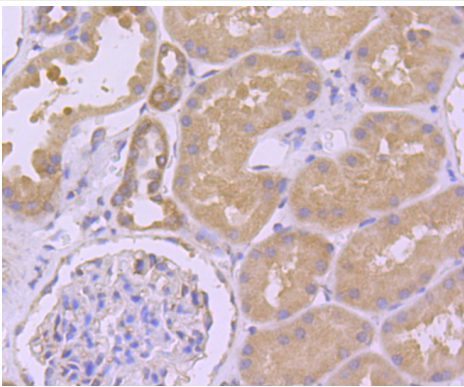
Western blot analysis of Argonaute 2 on different lysates using anti-Argonaute 2 antibody at 1/1,000 dilution. Positive control: Lane 1: Hela Lane 2: MCF-7



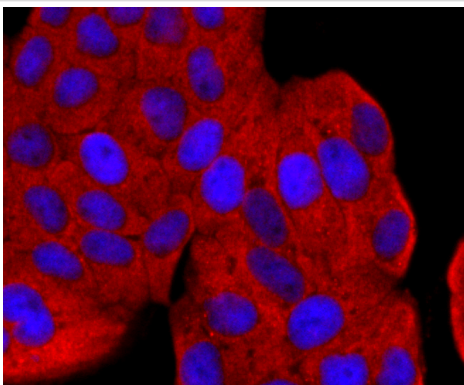
Immunohistochemical analysis of paraffin-embedded mouse kidney tissue using anti-Argonaute 2 antibody. Counter stained with hematoxylin.



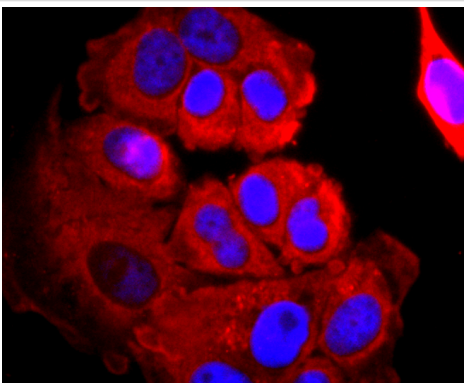
Immunohistochemical analysis of paraffin-embedded mouse stomach tissue using anti-Argonaute 2 antibody. Counter stained with hematoxylin.



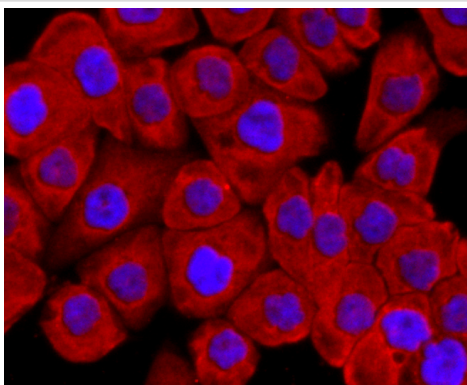
Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-Argonaute 2 antibody. Counter stained with hematoxylin.



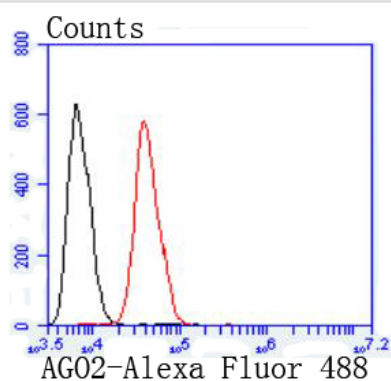
ICC staining Argonaute 2 in HeLa cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining Argonaute 2 in MCF-7 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining Argonaute 2 in AGS cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of HeLa cells with Argonaute 2 antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

## Background

Eukaryotic translation initiation factor 2C (eIF2C) proteins (argonaute family) influence RNA interference (RNAi) as components of the RNA-inducible silencing complex (RISC) or microRNA (miRNA)-containing ribonucleoprotein particle (miRNP). Small RNAs, including small interfering RNAs (siRNAs) and miRNAs, can silence target genes through mechanisms that utilize RISC or miRNP particles. eIF2C1 (argonaute 1, AGO1, eIF2C, GERP95, Q99) and Dicer1 play a coordinated role in siRNA-mediated gene silencing. eIF2C2 (Slicer, argonaute 2, AGO2, Q10) is a RISC component that can concentrate in cytoplasmic processing bodies (P-bodies) and catalyze mRNA cleavage. Mammalian P-bodies contain mRNAs and have an association with miRNA-induced translational silencing and siRNA-induced mRNA degradation. Additional eIF2C proteins include eIF2C3 (argonaute 3, AGO3), eIF2C4 (argonaute 4, AGO4) and mIF2c5 (mouse argonaute 5).

## References

Note: This product is for in vitro research use only