

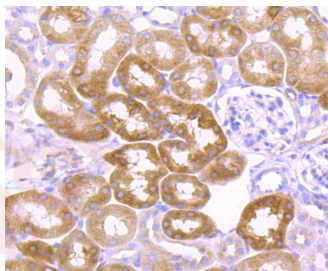
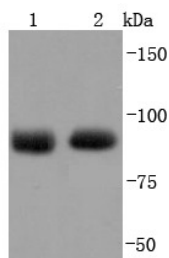
## Anti-Argonaute-2 Antibody (1L369)

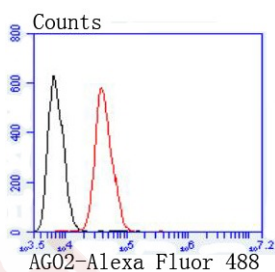
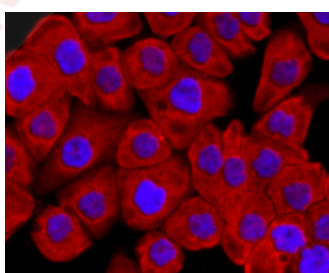
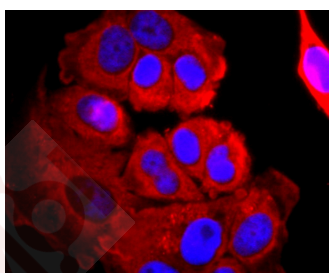
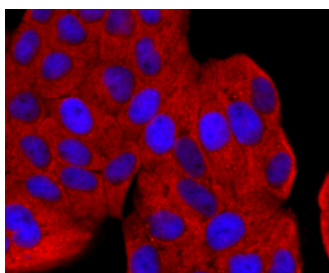
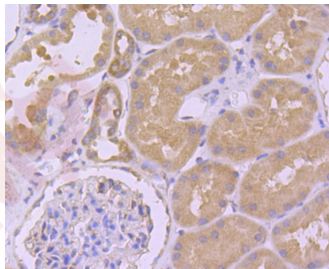
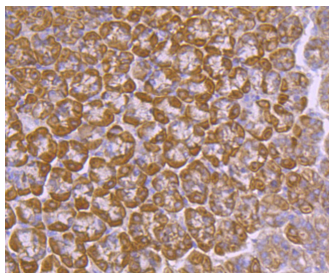
### Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 97 kDa.
Clone:	1L369
Purification:	ProA affinity purified

### Applications

1. 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.
  2. Immunohistochemical analysis of paraffin-embedded mouse kidney tissue using anti-Argonaute 2 antibody. Counter stained with hematoxylin.
  3. Immunohistochemical analysis of paraffin-embedded mouse stomach tissue using anti-Argonaute 2 antibody. Counter stained with hematoxylin.
  4. Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-Argonaute 2 antibody. Counter stained with hematoxylin.
- Verified Activity:
5. 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.
  6. 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.
  7. 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.
  8. 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.





Application: FCM, ICC/IF, IHC, IP, WB

Recommended WB: 1:1000-2000; IHC: 1:50-200; ICC/IF: 1:50-200; FCM: 1:50-100

### Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

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### Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: Q9UKV8

Synonyms: Argonaute 2;Q10;EIF2C2;argonaute RISC catalytic component 2

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### Research 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 meIF2c5 (mouse argonaute 5).

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