



# Rabbit Anti-AGO2 monoclonal antibody, clone KG1003 (CABT-L874)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Target</b>	Argonaute 2
<b>Immunogen</b>	Recombinant protein
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Human, Mouse, Rat
<b>Clone</b>	KG1003
<b>Purification</b>	Protein A purified.
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB, ICC/IF, IHC, IP, FC
<b>Molecular Weight</b>	97 kDa
<b>Cellular Localization</b>	Cytoplasm, Nucleus.
<b>Positive Control</b>	AGS, MCF-7, Hela, human kidney tissue, mouse kidney tissue, mouse stomach tissue.
<b>Format</b>	Liquid
<b>Size</b>	100 µl
<b>Buffer</b>	1×TBS (pH7.4), 1% BSA, 40% Glycerol.
<b>Preservative</b>	0.05% Sodium Azide

**Storage**

Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

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## BACKGROUND

**Introduction**

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 melF2c5 (mouse argonaute 5).

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**Keywords**

Ago 2;AGO2\_HUMAN;Argonaute 2;argonaute 2, RISC catalytic component;Argonaute RISC catalytic component 2;Argonaute2;CTA-204B4.6;dAgo2;eIF 2C 2;eIF-2C 2;eIF2C 2;Eif2c2;Eukaryotic translation initiation factor 2C 2;Eukaryotic translation initiation factor 2C subunit 2;hAgo2;MGC3183;PAZ Piwi domain protein;PPD;Protein argonaute-2;Protein slicer;Q10;Slicer protein antibody

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## GENE INFORMATION

**Entrez Gene ID**

[718](#)

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