



A Reliable Research Partner in Life Science and Medicine

Recombinant AGO2/Argonaute 2/EIF2C2 Monoclonal Antibody

catalog number: AN300165P

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Reactivity Mouse

Immunogen Recombinant Mouse AGO2 protein

Host Rabbit
Isotype IgG
Clone A1279
Purification Protein A

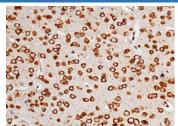
Buffer 0.2 µm filtered solution in PBS

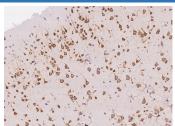
Applications Recommended Dilution

IHC-P 1:100-1:500

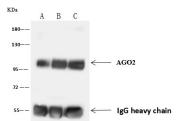
μ 1-4 μL/mg of lysate

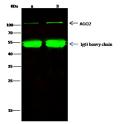
Data





Immunohistochemistry of paraffin-embedded mouse brain Immunohistochemistry of paraffin-embedded human brain using AGO2 / Argonaute 2 / EIF2C2 Monoclonal Antibody at dilution of 1:200. Immunohistochemistry of paraffin-embedded human brain using AGO2 / Argonaute 2 / EIF2C2 Monoclonal Antibody at dilution of 1:200.





Immunoprecipitation analysis using 4 μL anti-AGO2
Monoclonal Antibody and 60 μg of Immunomagnetic beads
Protein A/G. Western blot was performed from the
immunoprecipitate using AGO2 Monoclonal Antibody at a
dilution of 1:100. Lane A:0.5 mg Hela Whole Cell Lysate,
Lane B:0.5 mg MCF-7 Whole Cell Lysate, Lane C:0.5 mg
HEK293 Whole Cell Lysate

Immunoprecipitation analysis using 2 μ L anti-Mouse AGO2 Monoclonal Antibody and 15 μ l of 50 % Protein G agarose. Western blot was performed from the immunoprecipitate using AGO2 Monoclonal Antibody at a dilution of 1:100. Lane A:0.5 mg K562 Whole Cell Lysate, Lane B:0.5 mg Raw264.7 Whole Cell Lysate

Rev. V1.2

Preparation & Storage

Storage This antibody can be stored at 2°C-8°C for one month without detectable loss of

activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles.

Shipping Ice bag

Background

For Research Use Only

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Argonaute 2 (AGO2), also known as Eukaryotic translation initiation factor 2C2 (EIF2C2), belongs to the Argonaute family, AGO subfamily, which is a component of the RNA-induced silencing complex (RISC) and mediates small interfering RNA (siRNA)-directed mRNA cleavage and microRNA translational suppression. AGO2 protein is the catalytic engine of mammalian RNAi. It contains a PIWI domain that is structurally related to RNases H and possibly shares with them a two-metal-ion catalysis mechanism. Human AGO2 was unable to cleave preformed RNA duplexes and exhibited weaker binding affinity for RNA duplexes compared with the single strand RNA. The enzyme exhibited greater RNase H activity in the presence of Mn2+ compared with Mg2+. Human AGO2 exhibited weaker binding affinities and reduced cleavage activities for antisense RNAs with either a 5'-terminal hydroxyl or abasic nucleotide. In mouse hematopoiesis, AGO2 controls early development of lymphoid and erythroid cells. AGO2 is a highly specialized member of the Argonaute family with an essential nonredundant Slicer-independent function within the mammalian miRNA pathway. AGO2 regulates dFMR1 expression, and the relationship between dFMR1 and AGO2 was defined by their physical interaction and co-regulation of downstream targets. AGO2 and dFMR1 are also connected through a regulatory relationship. AGO2 is a regulator of dFMR1 expression and have clarified an important developmental role for AGO2 in the nervous system and germ line that requires dFMR1 function. In addition, AGO2 is regulated at both the transcriptional and posttranslational level, and also implicate AGO2 and enhanced micro-RNA activity in the tumorigenic progression of breast cancer cell lines.

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