

FUJIFILM

Wako

Code No. 011-22033 (50 μ L)
015-22031 (100 μ L)

Anti Human Ago2, Monoclonal Antibody

抗ヒト Ago2, モノクローナル抗体

Monoclonal Anti human Ago2 (Argonaute 2) antibody is produced by hybridoma clone 4G8, established by fusing mouse myeloma cells P3U1 and lymphocytes of BALB/c mice immunized with recombinant human Ago2 produced in *E. coli*.

This antibody was purified by an affinity column from cell culture supernatant.

This product is for laboratory research use only ; use in any other application is the responsibility of the user.

〔Concentration〕

Indicated on the label.

〔Formulation〕

1 $\times$ TBS (pH 7.4) aqueous solution with 10% glycerol containing 0.09% sodium azide.

〔Clone No.〕

4G8

〔Specificity〕

Specific for human Ago2.

〔Subclass〕

IgG₁

〔Working Dilution〕

Western blot 1 : 100 - 1 : 1,000

Immunoprecipitation 10 μ g / 20 μ L 10 % Protein G beads slurry

Immunocytochemistry 1 : 20 - 1 : 50

〔Storage〕

Keep at 2~10°C in the dark.

Avoid repeated freeze and thaw.

〔Package〕

50 μ L (011-22033)

100 μ L (015-22031)

〔References (Anti Human Ago2, Monoclonal Antibody(4G8))〕

- 1) Azuma-Mukai, A. *et al.* : Characterization of endogenous human Argonautes and their miRNA partners in RNA silencing. *Proc. Nat. Acad. Sci.*, 105, 7964 (2008).
- 2) Miyoshi, K. *et al.* : In vitro RNA cleavage assay for Argonaute-family proteins. *Methods Mol. Biol.*, 442, 29 (2008).
- 3) Qi, HH. *et al.* : Prolyl 4-hydroxylation regulates Argonaute 2 stability. *Nature.*, 455 (7211), 421 (2008).
- 4) Wang, B. *et al.* : Distinct passenger strand and mRNA cleavage activities of human Argonaute proteins. *Nat. Struct. Mol. Biol.*, 16 (12), 1259 (2009).
- 5) Takimoto, K. *et al.* : Mammalian GW182 contains multiple Argonaute-binding sites and functions in microRNA-mediated translational repression. *RNA.*, 15, 1079 (2009).
- 6) Hayashida, Y. Nishibu, T. *et al.* : A useful approach to total analysis of RISC-associated RNA. *BMC Research Notes.*, 2, 169 (2009).
- 7) Tan, GS. *et al.* : Expanded RNA-binding activities of mammalian Argonaute 2. *Nucleic Acid Res.*, 37 (22), 7533 (2009).
- 8) Umemura, T. *et al.* : *Blood (Suppl.)*, 114, 4042 (2009).
- 9) Burroughs, AM. Ando, Y. *et al.* : A comprehensive survey of 3' animal miRNA modification events and a possible role for 3' adenylation in modulating miRNA targeting effectiveness. *Genome Res.*, 20 (10), 1398 (2010).

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