bs-20459R **[Primary Antibody]**

AGO2 Rabbit pAb

www.bioss.com.cn
sales@bioss.com.cn
techsupport@bioss.com.cn
400-901-9800

DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 27161 **SWISS:** Q9UKV8

Target: AGO2

Immunogen: KLH conjugated synthetic peptide derived from human eIF2C2: 51-150/861.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: Preservative: 0.02% Proclin300, Constituents: 1% BSA, 0.01M PBS, pH7.4.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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).

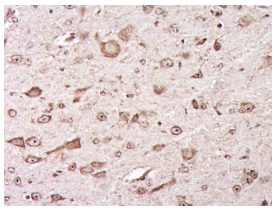
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Mouse (predicted: Human, Rat, Rabbit, Pig, Sheep, Cow, Chicken, Dog)

Predicted MW.: 97 kDa

Subcellular Location: Cytoplasm ,Nucleus

VALIDATION IMAGES



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (eIF2C2) Polyclonal Antibody, Unconjugated (bs-20459R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

SELECTED CITATIONS

- **[IF=4.534]** Chao Yang. et al. Circ_0006988 promotes the proliferation, metastasis and angiogenesis of non-small cell lung cancer cells by modulating miR-491-5p/MAP3K3 axis. 2021 Jun 30 IP ;Human. 34189997
- **[IF=3.853]** Xing, Jing. et al. CircZNF644 aggravates lipopolysaccharide-induced HK-2 cell impairment via the

miR-140-5p/MLKL axis. J BIOENERG BIOMEMBR. 2022 Aug;:1-12 Other ;Human. 35976517

- **[IF=3.1]** Gong et al. Identification and verification of potential piRNAs from domesticated yak testis. (2018) Reproduction. 155:117-127 WB,IHC ;Yak. 29101267
- **[IF=2.8]** Guo Zhibo. et al. Expression analysis, clinical significance and potential function of PLXNB2 in acute myeloid leukaemia. MOL BIOL REP. 2023 Aug;:1-13 IHC,IF ;Human. 37632633
- **[IF=2.6]** Zhou Hong. et al. Silencing circLDLRAD3 Inhibits Lung Cancer Progression by Regulating the miR-497-5p/PFKP Axis. MOL BIOTECHNOL. 2024 Mar;:1-12 IP ;Human. 38427179