bs-12450R **[Primary Antibody]**

AGO2 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 27161 **SWISS:** Q9UKV8

Target: AGO2

Immunogen: KLH conjugated synthetic peptide derived from human AGO2: 431-530/859.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
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).

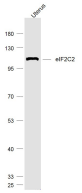
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

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

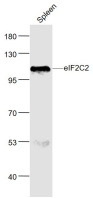
Predicted MW.: 97 kDa

Subcellular Location: Cytoplasm ,Nucleus

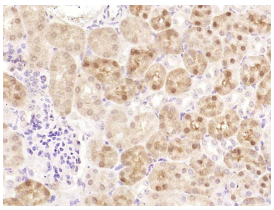
VALIDATION IMAGES



Sample: Uterus (Mouse) Lysate at 40 ug Primary: Anti-eIF2C2 (bs-12450R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 97 kD Observed band size: 97 kD



Sample: Spleen (Mouse) Lysate at 40 ug Primary: Anti-eIF2C2 (bs-12450R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 97 kD Observed band size: 97 kD



Paraformaldehyde-fixed, paraffin embedded (mouse kidney); 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 (AGO2) Polyclonal Antibody, Unconjugated (bs-12450R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

SELECTED CITATIONS

- **[IF=11.161]** Zhipeng Jiang. et al. EIF4A3-induced circ_0084615 contributes to the progression of colorectal cancer via miR-599/ONECUT2 pathway. J Exp Clin Canc Res. 2021 Dec;40(1):1-15 IP ;Human. 34253241
- **[IF=6.208]** Xiaoyv Yue. et al. circITGB1 Regulates Adipocyte Proliferation and Differentiation via the miR-23a/ARRB1

Pathway. INT J MOL SCI. 2023 Jan;24(3):1976 Other ;Sheep. 36768295

- **[IF=4.5]** Duo Cheng. et al. Downregulation of circ-RAPGEF5 inhibits colorectal cancer progression by reducing the expression of polypeptide N-acetylgalactosaminyltransferase 3 (GALNT3). ENVIRON TOXICOL. 2024 May;: Other ;Human. 38775215
- **[IF=4.657]** Feng, Lei. et al. Circ_0088194 Regulates Proliferation, Migration, Apoptosis, and Inflammation by miR-30a-3p/ADAM10 Axis in Rheumatoid Arthritis Fibroblastic Synovial Cells. INFLAMMATION. 2022 Aug;:1-14 Other ;Human. 35918573
- **[IF=3.038]** Yun Fan. et al. LncRNA SNHG15 Knockdown Protects Against OGD/R-Induced Neuron Injury by Downregulating TP53INP1 Expression via Binding to miR-455-3p. 2021 Feb 02 IP ;Rat. 33528807