bs-20316R **[Primary Antibody]**

QPRT/QAPRTase Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 23475 **SWISS:** Q15274

Target: QPRT/QAPRTase

Immunogen: KLH conjugated synthetic peptide derived from human QPRT/QAPRTase : 21-120/297.

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: Quinolinate phosphoribosyltransferase (QPRTase) is a major enzyme in the catabolism of quinolinate. Quinolinate is an intermediate in the tryptophan-nicotinamide adenine dinucleotide (NAD) pathway, leading to the production of nicotinic acid, carbon dioxide, and pyrophosphate. Catabolism of quinolinate is vital due to the quinolinate' s neurotoxicity. Increased levels of quinolinate have been linked to neurodegenerative symptoms associated with meningitis and AIDS. QAPRTase has a seven-stranded alpha/beta-barrel domain which is similar in structure to the eight-stranded alpha/beta-barrel enzymes. The protein possesses a novel fold in comparison to other members of the PRTase family. This fold comprises a structure combining two domains. The structure is part alpha/beta barrel-like domain, and part alpha/beta N-terminal domain.

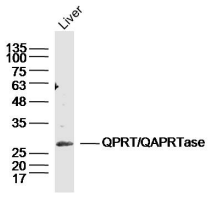
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

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

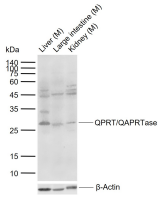
Predicted MW.: 31 kDa

Subcellular Location: Cytoplasm

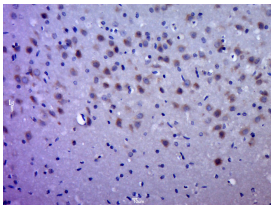
VALIDATION IMAGES



Sample: Liver (mouse) Lysate at 40 ug Primary: Anti- QPRT'QAPRTase (bs-20316R)at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 31kD Observed band size: 31kD



Sample: Lane 1: Mouse Liver tissue lysates Lane 2: Mouse Large intestine tissue lysates Lane 3: Mouse Kidney tissue lysates Primary: Anti-QPRT/QAPRTase (bs-20316R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 31 kDa Observed band size: 28 kDa



Paraformaldehyde-fixed, paraffin embedded (Rat 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 (Quinolinate phosphoribosyltransferase; QPRT/QAPRTase) Polyclonal Antibody, Unconjugated (bs-20316R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

SELECTED CITATIONS

- **[IF=26.6]** Lei Yao. et al. NAD+ biosynthesis and mitochondrial repair in acute kidney injury via ultrasound-responsive thylakoid-integrating liposomes. NAT BIOMED ENG. 2025 Jun;:1-18 IF,WB ;Mouse,Human. 40461655