bs-0563R

[Primary Antibody]

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MDR1 Rabbit pAb

- DATASHEET -

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GenelD: 5243 **SWISS:** P08183

Target: MDR1

Immunogen: KLH conjugated synthetic peptide derived from human MDR1:

21-100/1272. < Cytoplasmic >

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: bs-1468P is one synthetic peptide derived from human MDR1.

P Glycoprotein, the product of the MDR1 gene, is expressed in distinct non-malignant cells, typically cells with secretory and excretory functions. It is assumed to function as an ATP-dependent drug efflux pump with broad substrate specificity. The highest expression of P Glycoprotein has been observed in kidney (proximal tubules), liver (bile canaliculi), adrenal gland and intestine, suggesting that the primary role of P Glycoprotein is in the normal secretion of physiological metabolites and ingested chemicals into bile, urine and the lumen of the intestinal tract. Elevated levels of P Glycoprotein have also been reported in multidrug-resistant cell lines and in colon, endometrial, ovarian, and breast tumors, as well as in sarcomas and leukemias /

lymphomas.

Applications: IHC-P (1:100-500)

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

Reactivity: Human, Mouse, Rat

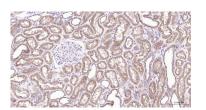
Predicted MW.: 141 kDa

Subcellular Location: Cell membrane

VALIDATION IMAGES



Paraformaldehyde-fixed, paraffin embedded Mouse Kidney; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with MDR1 Polyclonal Antibody, Unconjugated (bs-0563R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Kidney; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with MDR1 Polyclonal Antibody, Unconjugated (bs-0563R) at 1:200 overnight at 4°C, followed by conjugation to the bs-02956-HRP and DAB (C-0010) staining.

- SELECTED CITATIONS -

- [IF=9.727] Hiroshi Kikuchiet al. Chemotherapy-Induced IL8 Upregulates MDR1/ABCB1 in Tumor Blood Vessels and Results in Unfavorable Outcome. Cancer Res. 2020 Jul 15;80(14):2996-3008. Other;. 32536602
- [IF=6.93] Peng, Lei, et al. "Development of a novel orthotopic non-small cell lung cancer model and therapeutic benefit of 2'-(2-bromohexadecanoyl)-docetaxel conjugate nanoparticles." Nanomedicine: Nanotechnology, Biology and Medicine (2014). IHC; Mouse. 24709328
- [IF=7.3] Jinhua Gu. et al. Deciphering the mechanism of Peptostreptococcus anaerobius-induced chemoresistance in

colorectal cancer: the important roles of MDSC recruitment and EMT activation. FRONT IMMUNOL. 2023; 14: 1230681 WB ;Mouse. 37781363

- [IF=7.149] Yuan P et al. WS2 Nanosheets at Noncytotoxic Concentrations Enhance the Cytotoxicity of Organic Pollutants by Disturbing the Plasma Membrane and Efflux Pumps. Environ Sci Technol. 2020 Feb 4;54(3):1698-1709. WB; Mouse&Human. 31916439
- [IF=5.4] Jialing Sun. et al. Investigating the molecular mechanism of Qizhu anticancer prescription in inhibiting hepatocellular carcinoma based on high-resolution mass spectrometry and network pharmacology. J ETHNOPHARMACOL. 2024 Feb;:117985 WB; Mouse. 38417600