**bs-0563R** **[ Primary Antibody ]**

# ABCB1 | MDR1/P-Glycoprotein 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:** 5243 **SWISS:** P08183

**Target:** ABCB1 | MDR1/P-Glycoprotein

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

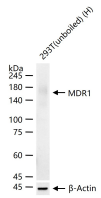
**Reactivity:** Human, Mouse, Rat

**Predicted MW.:** 141 kDa

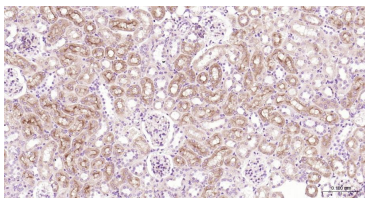
**Observed MW.:** 170 kDa

**Subcellular Location:** Cell membrane

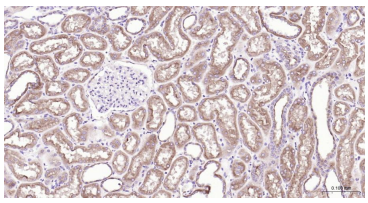
## VALIDATION IMAGES




25 ug total protein per lane of various lysates (see on figure) probed with MDR1 polyclonal antibody, unconjugated (bs-0563R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



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-0295G-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=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=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=6]** Wang Mingqi. et al. A vascularized 3D bioengineered lung tumor model for anticancer drug screening. CANCER CELL INT. 2025 Dec;25(1):418 IF ;Human. 41267094