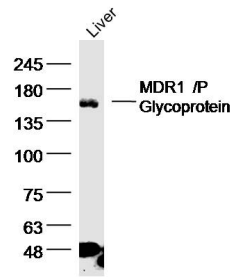
www.bioss.com.cn
sales@bioss.com.cn
techsupport@bioss.com.cn
400-901-9800

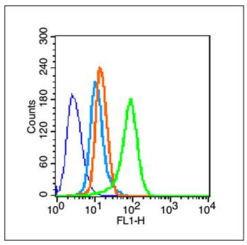
MDR1/P Glycoprotein Rabbit pAb

Catalog Number:	bs-1468R
Target Protein:	MDR1/P Glycoprotein
Concentration:	1mg/ml
Form:	Liquid
Host:	Rabbit
Clonality:	Polyclonal
Isotype:	IgG
Applications:	WB (1:500-2000), Flow-Cyt (1μg/Test), ICC/IF (1:100)
Reactivity:	Human, Mouse, Rat
Predicted MW:	141 kDa
Entrez Gene:	5243
Swiss Prot:	P08183
Source:	KLH conjugated synthetic peptide derived from human MDR1: 1051-1280/1280.
Purification:	affinity purified by Protein A
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.

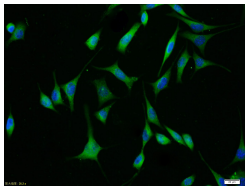
VALIDATION IMAGES



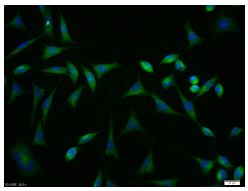
Sample: liver (Rat) Lysate at 40 ug Primary: Anti-MDR1'P Glycoprotein (bs-1468R)at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 141kD Observed band size: 141 kD



Blank control (blue line): Hela (blue). Primary Antibody (green line): Rabbit Anti-MDR1 antibody (bs-1468R) Dilution: 1µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): Goat anti-rabbit IgG-FITC Dilution: 1µg /test. Protocol The cells were fixed with 70% methanol (Overnight at -20°C) and then permeabilized with ice-cold 90% methanol for 30 min on ice. Cells stained with Primary Antibody for 30 min at room temperature. The cells were then incubated in 1 X PBS/2%BSA/10% goat serum to block non-specific protein-protein interactions followed by the antibody for 15 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.



Tissue/cell:SH-SY5Y cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Antibody incubation with (MDR1/P Glycoprotein) polyclonal Antibody, Unconjugated (bs-1468R) 1:100, 90 minutes at 37°C; followed by a FITC conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.



Tissue/cell:SH-SY5Y cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Antibody incubation with (MDR1/P Glycoprotein) polyclonal Antibody, Unconjugated (bs-1468R) 1:100, 90 minutes at 37°C; followed by a FITC conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.

PRODUCT SPECIFIC PUBLICATIONS

[IF=17.1] Danyu Wang. et al. Photoactivated DNA Nanodrugs Damage Mitochondria to Improve Gene Therapy for Reversing Chemoresistance. ACS NANO. 2023;XXXX(XXX):XXX-XXX WB ; Human . 37606317

[IF=6.656] Jiameng Qu. et al. Induction of P-glycoprotein expression by dandelion in tumor and heart tissues: Impact on the anti-tumor activity and cardiotoxicity of doxorubicin. PHYTOMEDICINE. 2022 Jun;:154275 WB ; Mouse . 35760022

[IF=5.988] Zipeng Gong. et al. Pharmacokinetic Differences of Wuji Pill Components in Normal and Chronic Visceral Hypersensitivity Irritable Bowel Syndrome Rats Attributable to Changes in Tight Junction and Transporters. FRONT PHARMACOL. 2022; 13: 948678 IHC,IF ; Rat . 35873589

[IF=4.546] Huang, Wenjie. et al. The inhibitory effect and mechanism of Yi-qi-hua-yu-jie-du decoction on the drug resistance of gastric cancer stem cells based on ABC transporters. CHIN MED-UK. 2022 Dec;17(1):1-18 WB ; Human . 35941687

[IF=3.23] Mo L, Pospichalova V, Huang Z, Murphy SK, Payne S, Wang F, et al. (2015) Ascites Increases Expression/Function of Multidrug Resistance Proteins in Ovarian Cancer Cells. PLoS ONE 10(7): e0131579. WB ; ="Human" . 26148191