

MDR-1 Recombinant Rabbit Monoclonal Antibody Product Datasheet

Catalog# BX50283

Clone# BP6260

Predicted Molecular Wt: 141kDa

Species Cross-reactivity: Human

Applications: IHC-P

Purity: ProA affinity purified IgG

Form: Liquid

Swissprot ID: P08183

Background:

MDR1/ABCB1 belongs to the Mdr/Tap subfamily of the ATP-binding cassette transporter superfamily. Multidrug resistance 1 (MDR1) serves as an efflux pump for xenobiotic compounds with broad substrate specificity. MDR1 substrates include therapeutic agents such as actinomycin D, etoposide, imatinib, and doxorubicin, as well as endogenous molecules including β -amyloids, steroid hormones, lipids, phospholipids, cholesterol, and cytokines. Intracellular MDR1 has been detected in the ER, vesicles, and nuclear envelope, and has been associated with cell trafficking machinery. Other reported functions of MDR1 include viral resistance, cytokine trafficking, and lipid homeostasis in the peripheral and central nervous system.

MDR1 expressed in the plasma membrane of cells in the blood-brain, blood-cerebral spinal fluid, or blood-placenta barriers restricts the permeability of drugs into these organs from the apical or serosal side. MDR1 is also expressed in normal tissues with excretory function such as small intestine, liver, and kidney.

Research studies have shown that MDR1 reduces drug accumulation in cancer cells, allowing the development of drug resistance.

Subcellular location:

Membrane

Recommended Method:

Heat induced epitope retrieval with Tris-EDTA buffer (pH 9.0), primary antibody incubate at RT (18°C-25°C) for 30 minutes.

Immunogen:

Synthetic peptide. This information is proprietary to Biolynx.

Storage Buffer:

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

Storage Conditions:

-25°C to -18°C

Shipment Instructions:

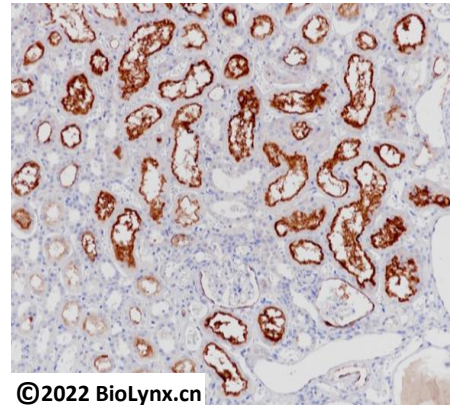
Shipped on blue ice. Upon delivery store at -25°C to -18°C. Avoid freeze / thaw cycles.

Recommended Dilution:

IHC-P: 1:100-1:200


Background References:

1. Miller, D.S. et al. (2008) Pharmacol Rev 60, 196-209.
2. Jeannesson, E. et al. (2009) Clin Chim Acta 403, 198-202.



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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human breast cancer labelling MDR-1 with BP6260.

Product QC'd by: 

For research use only. Not for use in diagnostic or therapeutic applications.