**Delivery** 

**Protein Pathways** 

Storage & Shipping



## **PRODUCT INFORMATION**

Tag C-Flag Tag MDR-1 **Target** 

ABCB1; CD243; CLCS; GP170; MDR1; p-170; P-GP; **Synonyms** 

Human MDR-1 full length protein-synthetic Description

nanodisc In Stock

**Uniprot ID** P08183 **Expression Host** HFK293

Druggable Genome, ES Cell Differentiation/IPS, **Protein Families** 

Transmembrane ABC transporters

The human full length MDR-1 protein has a MW of Molecular Weight

141.5 kDa

Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% Formulation & 8% trehalose is added as protectants before Reconstitution lyophilization. Please see Certificate of Analysis

for specific instructions of reconstitution. Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing).

Lyophilized proteins are shipped at ambient

temperature.

The membrane-associated protein encoded by this gene is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the MDR/TAP subfamily. Members of the MDR/TAP subfamily are involved in multidrug assistance. The protein appealed by this gene is resistance. The protein encoded by this gene is

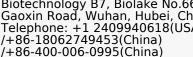
**Background** an ATP-dependent drug efflux pump for

xenobiotic compounds with broad substrate specificity. It is responsible for decreased drug accumulation in multidrug-resistant cells and often mediates the development of resistance to anticancer drugs. This protein also functions as a transporter in the blood-brain barrier. Mutations in this gene are associated with colchicine resistance and Inflammatory bowel disease 13. Alternative splicing and the use of alternative promoters results in multiple transcript variants.

> Email: info@dimabio.com Website: www.dimabio.com

Usage Research use only

Conjugate Unconjugated







## ELISA assay to evaluate MDR-1-Nanodisc 0.2μg Human MDR-1-Nanodisc per well

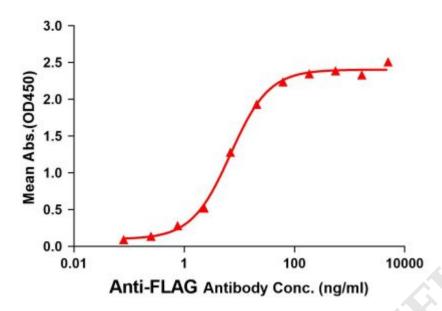


Figure 1. Elisa plates were pre-coated with Flag Tag MDR-1-Nanodisc ( $0.2\mu g/per$  well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with MDR-1-Nanodisc is 6.883 ng/ml.

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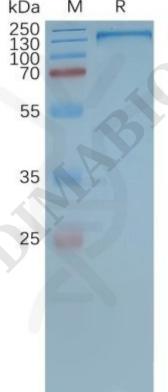


Figure 2. Human MDR-1-Nanodisc, Flag Tag on SDS-PAGE

