

PRODUCT INFORMATION

Tag	C-Flag Tag
Expression Host	HEK293
Target	ABCG1
Synonyms	ABC8; WHITE1
Description	Human ABCG1 full length protein-synthetic nanodisc
Uniprot ID	P45844
Protein Families	Druggable Genome, Transmembrane
Protein Pathways	ABC transporters
Molecular Weight	The human full length ABCG1 protein has a MW of 75.6 kDa
Delivery	In Stock
Formulation & Reconstitution	Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions. Do not use solvents with a pH below 6.5 or those containing high concentrations of divalent metal ions (greater than 5 mM) in subsequent experiments.
Sterility	Products are supplied non-sterile. For cell culture applications, dilute in appropriate medium and sterile-filter (0.22 µm) prior to use.
Storage&Shipping	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.
Background	The protein 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 White subfamily. It is involved in macrophage cholesterol and phospholipids transport, and may regulate cellular lipid homeostasis in other cell types
Usage	Research use only
Conjugate	Unconjugated



ELISA assay to evaluate ABCG1-Nanodisc 0.2 μ g Human ABCG1-Nanodisc per well

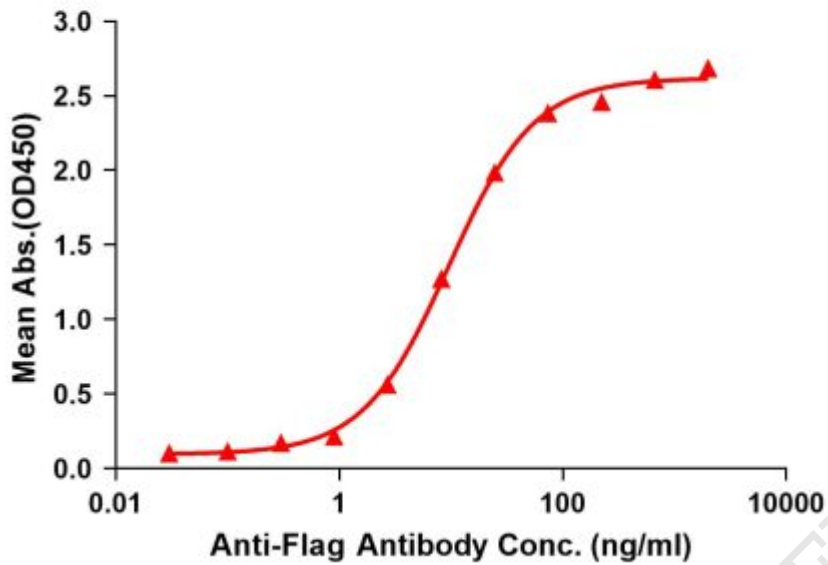


Figure1. Elisa plates were pre-coated with Flag Tag ABCG1-Nanodisc (0.2 μ g/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with ABCG1-Nanodisc is 9.545ng/ml.



Figure2. Human ABCG1-Nanodisc, Flag Tag on SDS-PAGE

