PRODUCT INFORMATION

Tag	C-Flag Tag
Target	MLC1
Synonyms	LVM; MLC; VL
Description	Human MLC1 full length protein-synthetic nanodisc
Delivery	In Stock
Uniprot ID	Q15049
Expression Host	HEK293
Protein Families	Ion Channels: Other, Transmembrane
Protein Pathways	N/A
Molecular Weight	The human full length MLC1 protein has a MW of 41.2 kDa
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.
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 function of this protein is unknown; however, homology to other proteins suggests that it may be an integral membrane transporter. Mutations in this gene have been associated with megalencephalic leukoencephalopathy with subcortical cysts, an autosomal recessive neurological disorder. Alternatively spliced transcript variants encoding different isoforms have been identified.
Usage	Research use only
Conjugate	Unconjugated

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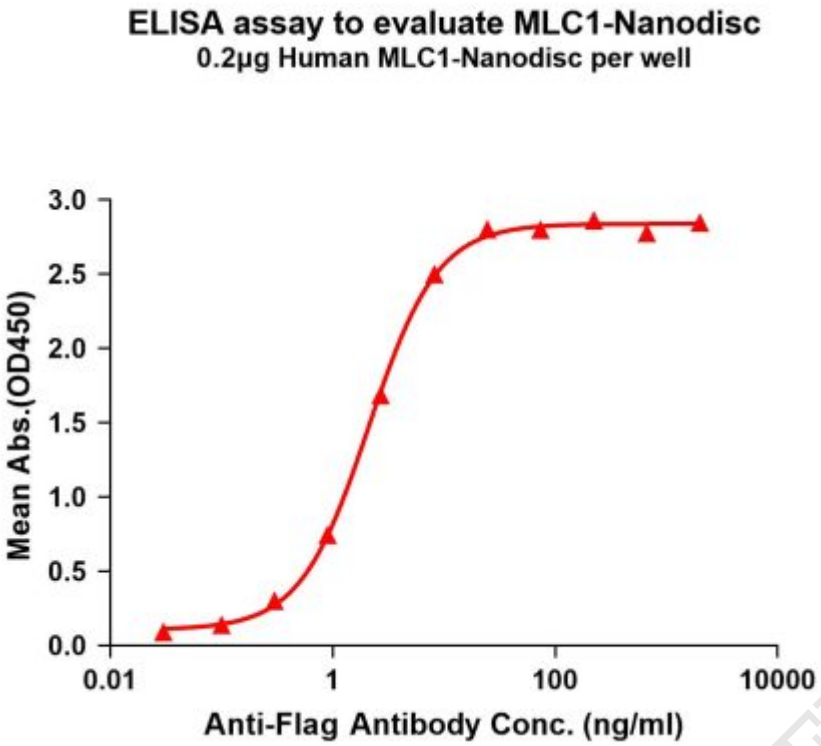

Figure1. Elisa plates were pre-coated with Flag Tag MLC1-Nanodisc (0.2μg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with MLC1-Nanodisc is 2.111ng/ml.

Figure2. Human MLC1-Nanodisc, Flag Tag on SDS-PAGE

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