

Biotinylated Human Cystine/glutamate transporter (SLC7A11) Nanodisc



Cat. No. XCT-HM10NB

Description	
Source	Recombinant Biotinylated Human Cystine/glutamate transporter (SLC7A11) Nanodisc is expressed from HEK293 with His tag at the C-terminus. It contains Met1-Leu501.
Accession	Q9UPY5
Molecular Weight	The protein has a predicted MW of 68.4 kDa.
Endotoxin	Less than 1 EU per µg by the LAL method.

Formulation and Storage	
Formulation	Supplied as 0.22 µm filtered solution in PBS, 200mM L-arginine (pH 7.4). Notice: Not recommended for flow cytometry in mammalian cells.
Storage	Valid for 6 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

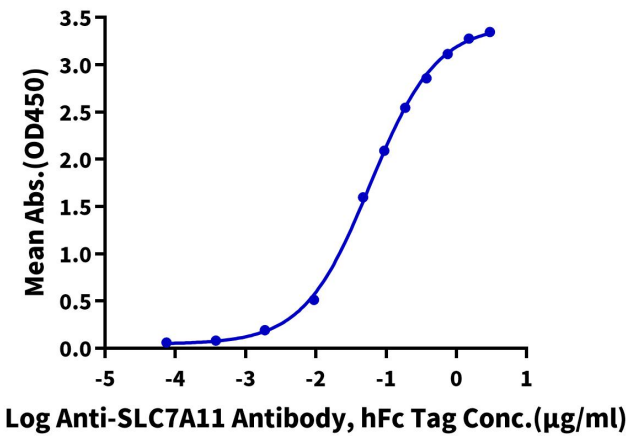
Background	
Solute Carrier Family 7 Member 11 (SLC7A11, also known as xCT) is the functional subunit of the Xc- system, an anionic L-cystine/L-glutamate antiporter expressed on the cell surface. SLC7A11 expression is significantly upregulated in several types of cancers in which it can inhibit ferroptosis and favor cancer cell proliferation, invasion and chemoresistance. SLC7A11 expression is also increased in ovarian cancer tissues, suggesting a possible role of this protein as a therapeutic target.	

Assay Data

ELISA Data

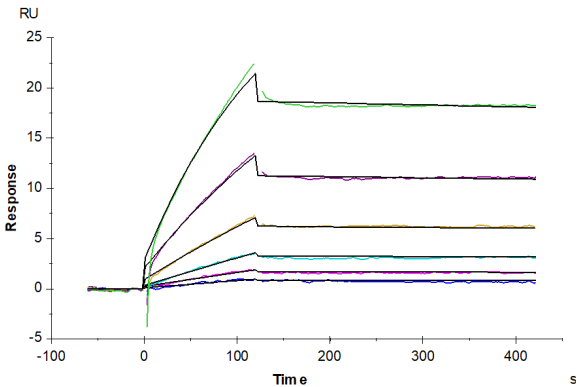
Biotinylated Human SLC7A11 Nanodisc, His Tag ELISA

0.5µg Biotinylated Human SLC7A11 Nanodisc, His Tag Per Well



Immobilized Biotinylated Human SLC7A11 Nanodisc, His Tag at 5µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Anti-SLC7A11 Antibody, hFc Tag with the EC50 of 59.3ng/ml determined by ELISA (QC Test).

SPR Data



Biotinylated Human SLC7A11 Nanodisc, His Tag captured on CM5 Chip via Streptavidin can bind Anti-SLC7A11 Antibody, hFc Tag with an affinity constant of 1.55 nM as determined in SPR assay (Biacore T200).