Datasheet for ABIN7538328

ILDR2 Protein

2 Images

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Overview

Quantity:	50 µg
Target:	ILDR2
Origin:	Human
Source:	Mammalian Cells
Protein Type:	Synthetic Nanodisc

Product Details

Purpose:	Human ILDR2 full length protein-synthetic nanodisc
Characteristics:	Unlike other membrane scaffold protein (MSP) Nanodisc on the market, our synthetic Nanodisc can be prepared directly from the cells. The polymers used during this process have a dual function. It dissolves the cell membranes, like the detergent, and uses cellular phospholipids to form Nanodisc around the membrane proteins. The target protein embedded Nanodiscs can then be purified.

Target Details

Target:	ILDR2
Alternative Name:	ILDR2 (ILDR2 Products)
Background:	May be involved in ER stress pathways with effects on lipid homeostasis and insulin secretion. With ILDR1 and LSR, involved in the maintain of the epithelial barrier function through the recruitment of MARVELD2/tricellulin to tricellular tight junctions. Also functions as a B7-like protein family member expressed on immune cells and inflamed tissue and with T-cell inhibitory activity.

Target Details

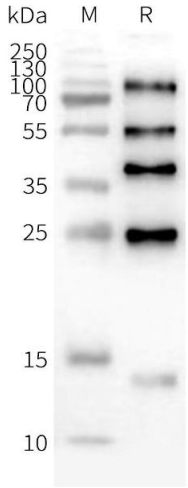
Molecular Weight:	The human full length ILDR2 protein has a MW of 71.2 kDa
UniProt:	Q71H61

Application Details

Comment:	Advantages of Synthetic Nanodiscs: • Highly purified membrane proteins • High solubility in aqueous solutions • High stability • Proteins are in a native membrane environment and remain biologically active • No detergent and can be used for cell-based assays • No MSP backbone proteins Limitations of Synthetic Nanodiscs: • Intolerant to acids and high concentrations of divalent metal ions
Restrictions:	For Research Use only

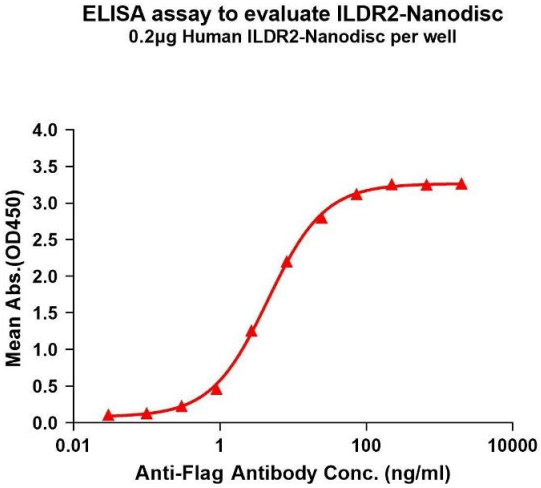
Handling

Format:	Lyophilized
Buffer:	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.
Storage:	-20 °C,-80 °C
Storage Comment:	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.
Expiry Date:	12 months



Western Blotting

Image 1. WB analysis of Human I-Nanodisc with anti-Flag monoclonal antibody at 1/5000 dilution, followed by Goat Anti-Rabbit IgG HRP at 1/5000 dilution



ELISA

Image 2. Elisa plates were pre-coated with Flag Tag I-Nanodisc (0.2 μg/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 I-Nanodisc is 4.527 ng/mL.