ILDR2/B7-2 Protein, Human (HEK293, His)

Cat. No.:	HY-P70864
Synonyms:	Angulin-3; C1orf32; Dbsm1; DJ782G3.1; ILDR2; immunoglobulin-like domain containing receptor 2; LISCH-Like
Species:	Human
Source:	HEK293
Accession:	Q71H61 (L21-E186)
Gene ID:	387597
Molecular Weight:	45-55 kDa

PROPERTIES

AA Sequence	L Q V T V P D K K K V A M L F Q P T V L R C H F S T S S H Q P A V V Q W K F K S Y C Q D R M G E S L G M S S T R A Q S L S K R N L E W D P Y L D C L D S R R T V R V V A S K Q G S T V T L G D F Y R G R E I T I V H D A D L Q I G K L M W G D S G L Y Y C I I T T P D D L E G K N E D S V E L L V L G R T G L L A D L L P S F A V E I M P E
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US;may vary elsewhere.

DESCRIPTION

Background	ILDR2/B7-2 Protein appears to be a multifunctional player with diverse roles in cellular processes. It may be involved in ER stress pathways, exerting effects on lipid homeostasis and insulin secretion, thereby implicating its potential significance in metabolic regulation. Alongside ILDR1 and LSR, ILDR2/B7-2 is engaged in maintaining the epithelial barrier function by recruiting MARVELD2/tricellulin to tricellular tight junctions, emphasizing its role in cellular integrity. Furthermore, acting as a member of the B7-like protein family expressed on immune cells and inflamed tissue, ILDR2/B7-2 exhibits T-cell inhibitory activity, suggesting an immunomodulatory function. In the inner ear, it may regulate alternative pre-mRNA splicing through interactions with TRA2A, TRA2B, and SRSF1. The protein's intricate network of interactions, including MARVELD2, OCLN,

P4HB, and HSPA5, further underscores its multifaceted nature. Notably, the interaction with HSPA5 stabilizes ILDR2 expression, contributing to its cellular regulation. Understanding the specific mechanisms governing ILDR2/B7-2's diverse functions could provide valuable insights into its roles in metabolic processes, cellular integrity, immunomodulation, and pre-mRNA splicing regulation.

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