LILRB2 Cell Lysate – Tissue Lysate

PRODUCT OVERVIEW

Product Name	ILT4 (LILRB2), Cell Lysate
Full Product Name	Human ILT4 HEK293 Overexpression Lysate
Product Gene Name	LILRB2 cell lysate
Product Synonym Names	Human LILRB2/ILT4/LIR-2 HEK293 Cell Lysate (WB positive control); leukocyte immunoglobulin like receptor B2; Human CD85D Overexpression Lysate; Human ILT-4 Overexpression Lysate; Human ILT4 Overexpression Lysate; Human LIR-2 Overexpression Lysate; Human LIR2 Overexpression Lysate; Human MIR-10 Overexpression Lysate; Human MIR10 Overexpression Lysate
Sequence	Met1-Val46 1
Host	HEK293 Cells
Form/Format	1x Sample Buffer (1x modified RIPA buffer+1x SDS loading buffer). Modified RIPA Lysis Buffer: 50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF.
Preparation and Storage	Store at 4 degree C for up to twelve months from date of receipt. After re-dissolution, aliquot and store at -80 degree C for up to twelve months. Avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt.
Molecular Weight	The recombinant human LILRB2 consists of 451 amino acids and predicts a molecular mass of 49.2kDa. It migrates as an approximately 66kDa band in SDS-PAGE under reducing conditions.
Sequence Positions	451aa
Species	Human
Recommend Usage	1. Centrifuge the tube for a few seconds and ensure the pellet at the bottom of the tube.**2. Re-dissolve the pellet using 200uL pure water and boil for 2-5 min.**
Sequence Construction	A DNA sequence encoding the human LILRB2 (AAH36827.1) (Met1-Val461) was expressed with a polyhistidine tag at the C-terminus.
Preparation Method	Cell lysate was prepared by homogenization of the over-expressed cells in ice-cold modified RIPA Lysis Buffer with cocktail of protease inhibitors. Cell debris was removed by centrifugation. Protein concentration was determined by Bradford assay (protein assay, Microplate Standard assay). The cell lysate was boiled for 5 min in 1 x SDS loading buffer (50mM Tris-HCl pH 6.8, 12.5% glycerol, 1% sodium dodecylsulfate, 0.01% bromophenol blue) containing 5% b-mercaptoethanol, and lyophilized.
Product Categories/Family for LILRB2 cell lysate	ITIM/ITAM Immunoreceptors and Related Molecules
Applications Tested/Suitable for LILRB2 cell lysate	Western Blot (WB)
Application Notes for LILRB2 cell lysate	WB: Use at an assay dependent dilution.

Related Product Information for LILRB2 cell lysate	ILT4, also known as LILRB2, is a member of the subfamily B class of LIR receptors which contain two or four extracellular immunoglobulin domains, a transmembrane domain, and two to four cytoplasmic immunoreceptor tyrosine-based inhibitory motifs (ITIMs). ILT4 gene is a member of the leukocyte immunoglobulin-like receptor (LIR) family. Multiple transcript variants encoding different isoforms have been found for the ILT4 gene. ILT4 is expressed on immune cells where it binds to MHC class I molecules on antigen-presenting cells and transduces a negative signal that inhibits stimulation of an immune response. It is thought to control inflammatory responses and cytotoxicity to help focus the immune response and limit autoreactivity. This Human ILT4 overexpression lysate was created in HEK293 Cells and intented for use as a Western blot (WB) positive control. Purification of ILT4 protein from the overexpression lysate was verified.
Product References and Citations for LILRB2 cell lysate	Colonna M., et al., (1997), A common inhibitory receptor for major histocompatibility complex class I molecules on human lymphoid and myelomonocytic cells. J. Exp. Med. 186:1809-1818.Borges L., et al., (1997), A family of human lymphoid and myeloid Ig-like receptors, some of which bind to MHC class I molecules.J. Immunol. 159:5192-5196.Grimwood J., et al., (2004), The DNA sequence and biology of human chromosome 19.Nature 428:529-535.
Other Notes	Small volumes of LILRB2 cell lysate vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for LILRB2 purchase	MBS8115346 is a cell lysate targeting LILRB2. Also known as Human ILT4 HEK293 Overexpression Lysate. Host: HEK293 Cells.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LILRB2. It may not necessarily be applicable to this product.

NCBI Accession #	AAH36827.1
Protein Family	Leukocyte immunoglobulin-like receptor subfamily
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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