LTBR Cell Lysate – Tissue Lysate

PRODUCT OVERVIEW

Product Name	LTBR, Cell Lysate
Full Product Name	Cynomolgus LTBR HEK293 Overexpression Lysate
Product Gene Name	LTBR cell lysate
Product Synonym Names	Cynomolgus LTBR/TNFRSF3 HEK293 Cell Lysate (WB positive control); lymphotoxin beta receptor (TNFR superfamily, member 3)
Sequence	Met1-Met22 5
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 cynomolgus LTBR is a disulfide-linked homodimer. The reduced monomer comprises 439 amino acids and has a calculated molecular mass of 48.8kDa. The apparent molecular mass of the protein is approximately 64-70kDa respectively in SDS-PAGE
Sequence Positions	439aa
3D Structure	ModBase 3D Structure for F6V995
Species	Cynomolgus
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 cynomolgus LTBR (F6V995) (Met1-Met225) was expressed with the Fc region of human IgG1 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.
Applications Tested/Suitable for LTBR cell lysate	Western Blot (WB)
Application Notes for LTBR cell lysate	WB: Use at an assay dependent dilution.

Related Product Information for LTBR cell lysate	LTBR (lymphotoxin beta receptor (TNFR superfamily, member 3)) is a member of the tumor necrosis factor (TNF) family of receptors. The tumor necrosis factor receptor is a trimeric cytokine receptor that binds tumor necrosis factors. The receptor cooperates with an adaptor protein (such as TRADD, TRAF, RIP), which is important in determining the outcome of the response. LTBR is expressed on the surface of most cell types, including cells of epithelial and myeloid lineages, but not on T and B lymphocytes. LTBR specifically binds the lymphotoxin membrane form (a complex of lymphotoxin-alpha and lymphotoxin-beta). LTBR and its ligand play a role in the development and organization of lymphoid tissue and transformed cells. Activation of this protein can trigger apoptosis. Not only does the LTBR help trigger apoptosis, but it can also lead to the release of the cytokine interleukin 8. Overexpression of LTBR in HEK293 cells increases IL-8 promoter activity and leads to IL-8 release. It is also essential for the development and organization of the secondary lymphoid organs and chemokine release. This Cynomolgus LTBR overexpression lysate was created in HEK293 Cells and intented for use as a Western blot (WB) positive control. Purification of LTBR protein from the overexpression lysate was verified.
Product References and Citations for LTBR cell lysate	Summers deLuca L, et al. (2011) A LTbetaR signaling in dendritic cells induces a type I IFN response that is required for optimal clonal expansion of CD8+ T cells. Proc Natl Acad Sci. 108(5):2046-51.Bista P, et al. (2010) TRAF3 controls activation of the canonical and alternative NFkappaB by the lymphotoxin beta receptor. J Biol Chem. 285(17):12971-8.Xu Y, et al. (2011) Adiponectin inhibits lymphotoxin-beta receptor-mediated NF-kappaB signaling in human umbilical vein endothelial cells. Biochem Biophys Res Commun. 404(4):1060-4.
Other Notes	Small volumes of LTBR 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 LTBR purchase	MBS8117810 is a cell lysate targeting LTBR. Also known as Cynomolgus LTBR HEK293 Overexpression Lysate. Host: HEK293 Cells.

ADDITIONAL DETAILS

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

UniProt Primary Accession #	F6V995
Protein Family	Tumor necrosis factor receptor superfamily
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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