CD226 Cell Lysate – Tissue Lysate

PRODUCT OVERVIEW

Product Name	CD226, Cell Lysate
Full Product Name	Cynomolgus CD226 HEK293 Overexpression Lysate
Product Gene Name	CD226 cell lysate
Product Synonym Names	Cynomolgus CD226 HEK293 Cell Lysate (WB positive control); CD226 molecule
Host	HEK293 Cells
Form/Format	Modified RIPA Lysis Buffer: 50 mM Tris-HCl pH7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF. 1 X Sample Buffer (1 X modified RIPA buffer+1 X SDS loading buffer).
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.
Molecular Weight	The recombinant cynomolgus CD226 consists of 245 amino acids and predicts a molecular mass of 28kDa. As a result of glycosylation, it migrates as an approximately 45.7kDa band in SDS-PAGE under reducing conditions.
Species	Cynomolgus
Sequence Information	A DNA sequence encoding the cynomolgus CD226 (A0A2K5W1Z6-1)(Met1-Phe252) was expressed with a polyhistidine tag at the C-terminus.
Preparation Method	Cell lysate was prepared by homogenization in ice-cold modified RIPA Lysis Buffer with cocktail of protease inhibitors (Sigma). 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 pH6.8, 12.5% glycerol, 1% sodium dodecylsulfate, 0.01% bromophenol blue) containing 5% b-mercaptoethanol, and lyophilized.
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. 3. Store the lyophilized cell lysate at 4 degree C. After re-dissolution, recommend to aliquot it into smaller quantities and store at -80 degree C.
Product Categories/Family for CD226 cell lysate	ITIM/ITAM Immunoreceptors and Related Molecules Cancer Drug Targets
Applications Tested/Suitable for CD226 cell lysate	Western Blot (WB)
Related Product Information for CD226 cell lysate	Description: This Cynomolgus CD226 overexpression lysate was created in HEK293 Cells and intented for use as a Western blot (WB) positive control. Purification of CD226 protein from the overexpression lysate was verified. Background: The cluster of differentiation (CD) system is commonly used as cell markers in Immunophenotyping. Different kinds of cells in the immune system can be identified through the surface CD molecules which associating with the immune function of the cell. There are more than 320 CD unique clusters and subclusters have been identified. Some of the CD molecules serve as receptors or ligands important to the cell through initiating a signal cascade which then alter the behavior of the cell. Some CD proteins do not take part in cell signal process but have other functions such as cell adhesion. CD226, also known as PTA1 or DNAM-1, is a member of the immunoglobulin superfamily containing 2 Ig-like domains of the V-set. High rate of CD226 (Cluster of Differentiation 226) is found on the surface of natural killer cells, platelets, monocytes and a subset of T cells. CD226 have binding sites with CD112 and CD155 and mediate cellular adhesion to other cells containing its ligands.

Product References and Citations for CD226 cell lysate	Zola H, et al. (2007) CD molecules 2006-human cell differentiation molecules. J Immunol Methods. 318 (1-2): 1-5.Ho IC, et al. (2009) GATA3 and the T-cell lineage: essential functions before and after T-helper-2-cell differentiation. Nat Rev Immunol. 9 (2): 125-35.Matesanz-Isabel J, et al. (2011) New B-cell CD molecules. Immunology Letters.134 (2): 104-12.
Other Notes	Small volumes of CD226 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 CD226 purchase	MBS8119922 is a cell lysate targeting CD226. Also known as Cynomolgus CD226 HEK293 Overexpression Lysate. Host: HEK293 Cells.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD226. It may not necessarily be applicable to this product.

Protein Family	CD226 antigen
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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