CD160 Cell Lysate – Tissue Lysate

PRODUCT OVERVIEW

Product Name	CD160, Cell Lysate
Full Product Name	Rhesus CD160 HEK293 Overexpression Lysate
Product Gene Name	CD160 cell lysate
Product Synonym Names	Rhesus CD160 HEK293 Cell Lysate (WB positive control); CD160 molecule
Sequence	Met1-Leu15 8
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 rhesus CD160 comprises 145 amino acids and has a calculated molecular mass of 16.3kDa.
Sequence Positions	145aa
Species	Rhesus
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 rhesus CD160 (XP_001089019.1) (Met1-Leu158) 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 CD160 cell lysate	Cancer Drug Targets
Applications Tested/Suitable for CD160 cell lysate	Western Blot (WB)
Application Notes for CD160 cell lysate	WB: Use at an assay dependent dilution.
Related Product Information for CD160 cell lysate	CD16 antigen, also known as Natural killer cell receptor BY55 and CD16, is a cell membrane protein which contains one Ig-like V-type (immunoglobulin-like) domain. CD16 is a GPI-anchored lymphocyte surface receptor in which expression is mostly restricted to the highly cytotoxic CD56(dim)CD16(+) peripheral blood NK subset. CD16 is a receptor showing broad specificity for both classical and non-classical MHC class I molecules. CD16 is expressed in spleen, peripheral blood, and small intestine. Expression of CD16 is restricted to functional NK and T cytotoxic lymphocytes. CD16 acts as a co-activator receptor for CD3-induced proliferation of CD4+ CD16+ T cells isolated from inflammatory skin lesions. Unique CD4+ CD16+ lymphocyte subset may play a role in the pathogenesis of skin inflammation. Activated NK lymphocytes release a soluble form of CD16 that functionally impairs the MHC-I-specific cytotoxic CD8(+) T lymphocyte responsiveness. This Rhesus CD160 overexpression lysate was created in HEK293 Cells and intented for use as a Western blot (WB) positive control. Purification of CD160 protein from the overexpression lysate was verified.

Product References and Citations for CD160 cell lysate	Barakonyi A. et al., 2004, J Immunol.173 (9): 5349-54. Rabot M. et al., 2006, Transpl Immunol. 17 (1): 36-8. Abecassis S. et al., 2007, J Invest Dermatol. 127?(5): 1161-6. Giustiniani J.?et al., 2007, J Immunol. 178 (3): 1293-300.
Other Notes	Small volumes of CD160 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 CD160 purchase	MBS8117912 is a cell lysate targeting CD160. Also known as Rhesus CD160 HEK293 Overexpression Lysate. Host: HEK293 Cells.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD160. It may not necessarily be applicable to this product.

NCBI Accession #	XP_001089019.1
Protein Family	CD160 antigen
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