CD47 Cell Lysate – Tissue Lysate

PRODUCT OVERVIEW

Product Name	CD47, Cell Lysate
Full Product Name	Mouse CD47 HEK293 Overexpression Lysate
Product Gene Name	CD47 cell lysate
Product Synonym Names	Mouse CD47 HEK293 Cell Lysate (WB positive control); CD47 molecule; Mouse 9130415E20Rik Overexpression Lysate; Mouse AA407862 Overexpression Lysate; Mouse AI848868 Overexpression Lysate; Mouse AW108519 Overexpression Lysate; Mouse B430305P08Rik Overexpression Lysate; Mouse IAP Overexpression Lysate; Mouse Itgp Overexpression Lysate
Sequence	Met1-Lys14 0
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 mouse Cd47 consists of 353 amino acids and predicts a molecular mass of 39.9kDa.
Sequence Positions	353aa
Species	Mouse
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 mouse Cd47 (XP_006521874.1) (Met1-Lys140) was expressed with the Fc region of rabbit IgG 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 CD47 cell lysate	Cancer Drug Targets
Applications Tested/Suitable for CD47 cell lysate	Western Blot (WB)
Application Notes for CD47 cell lysate	WB: Use at an assay dependent dilution.

Related Product Information for CD47 cell lysate	CD47 contains 1 Ig-like V-type (immunoglobulin-like) domain and is a receptor for the C-terminal cell binding domain of thrombospondin. It may play a role in membrane transport and signal transduction. CD47 is also a membrane protein, which is involved in the increase in intracellular calcium concentration that occurs upon cell adhesion to extracellular matrix. It is very broadly distributed on normal adult tissues, as well as ovarian tumors, being especially abundant in some epithelia and the brain. CD47 may play a role in membrane transport and/or integrin dependent signal transduction. It may prevent premature elimination of red blood cells. It also may be involved in membrane permeability changes induced following virus infection. By acting as an adhesion receptor for THBS1 on platelets, CD47 plays a role in both cell adhesion and in the modulation of integrins. It also plays an important role in memory formation and synaptic plasticity in the hippocampus. This Mouse CD47 overexpression lysate was created in HEK293 Cells and intented for use as a Western blot (WB) positive control. Purification of CD47 protein from the overexpression lysate was verified.
Product References and Citations for CD47 cell lysate	Brown EJ, et al. (2001) Integrin-associated protein (CD47) and its ligands. Trends Cell Biol. 11(3): 130-5.Oldenborg PA. (2004) Role of CD47 in erythroid cells and in autoimmunity. Leuk Lymphoma. 45(7): 1319-27.Kaczorowski DJ, et al. (2007) Targeting CD47: NO limit on therapeutic potential. Circ Res. 100(5): 602-3.
Other Notes	Small volumes of CD47 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 CD47 purchase	MBS8117176 is a cell lysate targeting CD47. Also known as Mouse CD47 HEK293 Overexpression Lysate. Host: HEK293 Cells.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD47. It may not necessarily be applicable to this product.

NCBI Accession #	XP_006521874.1
Protein Family	Leukocyte surface 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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