FCGR2A Cell Lysate – Tissue Lysate

PRODUCT OVERVIEW

Product Name	CD32A (FCGR2A), Cell Lysate
Full Product Name	Human CD32A HEK293 Overexpression Lysate
Product Gene Name	FCGR2A cell lysate
Product Synonym Names	Human CD32a/FCGR2A HEK293 Cell Lysate (WB positive control); Fc fragment of IgG receptor IIa; Human CD32 Overexpression Lysate; Human CD32A Overexpression Lysate; Human CDw32 Overexpression Lysate; Human Fc gamma RIIA Overexpression Lysate; Human FCG2 Overexpression Lysate; Human FcGR Overexpression Lysate; Human FCGR2 Overexpression Lysate; Human FCGR2A1 Overexpression Lysate; Human IGFR2 Overexpression Lysate
Sequence	Met1-Ile21 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	35,001 Da
Sequence Positions	196aa
Chromosome Location	Chromosome: 1; NC_000001.10 (161475205..161489360). Location: 1q23
OMIM	146790
3D Structure	ModBase 3D Structure for P12318
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 extracellular domain (Met1-Ile218) of human FCGR2A (P12318-1) was expressed with a C-terminal polyhistidine tag.
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 FCGR2A cell lysate	Fc Receptors ITIM/ITAM Immunoreceptors and Related Molecules
Applications Tested/Suitable for FCGR2A cell lysate	Western Blot (WB)
Application Notes for FCGR2A cell lysate	WB: Use at an assay dependent dilution.
Related Product Information for FCGR2A cell lysate	This Human CD32A overexpression lysate was created in HEK293 Cells and intented for use as a Western blot (WB) positive control. Purification of CD32A protein from the overexpression lysate was verified.

Other Notes	Small volumes of FCGR2A 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 FCGR2A purchase	MBS8113783 is a cell lysate targeting FCGR2A. Also known as Human CD32A HEK293 Overexpression Lysate. Host: HEK293 Cells.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FCGR2A. It may not necessarily be applicable to this product.

NCBI GI #	210031822
NCBI GeneID	2212
NCBI Accession #	NP_001129691.1
UniProt Primary Accession #	P12318
UniProt Secondary Accession #	Q8WUN1; Q8WW64
UniProt Related Accession #	P12318
GenBank Nucleotide #	NM_001136219.1
NCBI Official Full Name	low affinity immunoglobulin gamma Fc region receptor II-a isoform 1
NCBI Official Synonym Full Names	Fc fragment of IgG, low affinity IIa, receptor (CD32)
NCBI Official Symbol	FCGR2A
NCBI Official Synonym Symbols	CD32; FCG2; FcGR; CD32A; CDw32; FCGR2; IGFR2; FCGR2A1
UniProt Protein Name	Low affinity immunoglobulin gamma Fc region receptor II-a
UniProt Synonym Protein Names	CDw32; Fc-gamma RII-a
Protein Family	Low affinity immunoglobulin gamma Fc region receptor
UniProt Gene Name	FCGR2A
UniProt Synonym Gene Names	CD32; FCG2; FCGR2A1; IGFR2; IgG Fc receptor II-a; Fc-gamma-RIIa; FcRII-a
UniProt Entry Name	FCG2A_HUMAN
NCBI Protein Information	low affinity immunoglobulin gamma Fc region receptor II-a; fcRII-a; fc-gamma-RIIa; fc-gamma RII-a; igG Fc receptor II-a; Immunoglobulin G Fc receptor II
NCBI Summary for FCGR2A	This gene encodes one member of a family of immunoglobulin Fc receptor genes found on the surface of many immune response cells. The protein encoded by this gene is a cell surface receptor found on phagocytic cells such as macrophages and neutrophils, and is involved in the process of phagocytosis and clearing of immune complexes. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2008]
UniProt Comments for FCGR2A	FCGR2A: low affinity receptor for the Fc region of IgGs. Binding to IgG initiates cellular responses against pathogens and soluble antigens. A type I membrane protein found on monocytes, neutrophils and platelets. SHP-1 associates with this protein to modulate signaling events in myeloid cells. Protein type: Cell surface; Membrane protein, integral; Receptor, misc. Chromosomal Location of Human Ortholog: 1q23 Cellular Component: plasma membrane; integral to membrane Molecular Function: IgG binding Biological Process: innate immune response Disease: Systemic Lupus Erythematosus; Malaria, Susceptibility To

Research Articles on FCGR2A	**1.** A better binding of larger IgG1, IgG3, and IgG4 immune complexes is observed for both alleles of FcgammaRIIA.
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