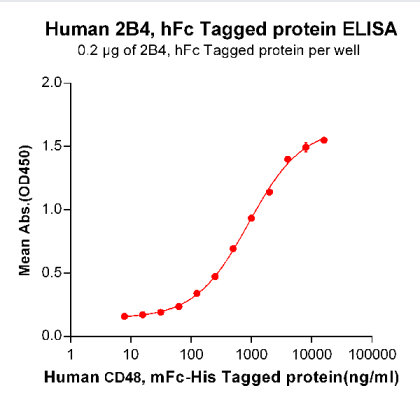
2B4 Recombinant Protein

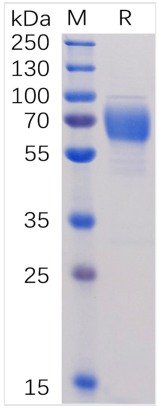
PRODUCT OVERVIEW

Product Name	2B4, Recombinant Protein
Full Product Name	Recombinant human 2B4 protein with C-terminal human Fc tag
Product Gene Name	2B4 recombinant protein
Product Synonym Names	Human 2B4 Protein, hFc tag; CD244; 2B4; SLAMF4; NKR2B4; NAIL; h2B4
Sequence	2B4(Cys22- Ala221)+hF c(Glu99-Al a330)
Host	HEK293 cells
Form/Format	Lyophilized from sterile PBS, pH 7.4. Normally 5%-96% trehalose is added as protectants before lyophilization.
Purity/Purification	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
Preparation and Storage	Store at -80 degree C for 12 months (Avoid repeated freezing and thawing) Shipping: Blue Ice
Molecular Weight	370
OMIM	605554
3D Structure	ModBase 3D Structure for Q9BZW8
Source	Human
Conjugation	C-Human Fc tag
Reconstitution	Reconstitute with deionized water
Applications Tested/Suitable for 2B4 recombinant protein	Western Blot (WB), ELISA (EIA)
Related Product Information for 2B4 recombinant protein	This gene encodes a cell surface receptor expressed on natural killer (NK) cells (and some T cells) that mediate non-major histocompatibility complex (MHC) restricted killing. The interaction between NK-cell and target cells via this receptor is thought to modulate NK-cell cytolytic activity. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Other Notes	Small volumes of 2B4 recombinant protein 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 2B4 purchase	MBS188156 is a recombinant protein targeting 2B4. Also known as Recombinant human 2B4 protein with C-terminal human Fc tag. Host: HEK293 cells.



ELISA (EIA) of 2B4 recombinant protein

Figure 1. Human 2B4, hFc Tag on SDS-PAGE under reducing condition.



SDS-Page of 2B4 recombinant protein

Figure 1. Human 2B4, hFc Tag on SDS-PAGE under reducing condition.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for 2B4. It may not necessarily be applicable to this product.

NCBI GI #	47605541
NCBI GeneID	51744
NCBI Accession #	Q9BZW8.2
UniProt Primary Accession #	Q9BZW8
UniProt Secondary Accession #	Q5VYI2; Q5VYI6; Q5VYI7; Q96T47; Q9NQD2; Q9NQD3; Q9Y288
UniProt Related Accession #	Q9BZW8
NCBI Official Full Name	Natural killer cell receptor 2B4
NCBI Official Synonym Full Names	CD244 molecule, natural killer cell receptor 2B4
NCBI Official Symbol	CD244
NCBI Official Synonym Symbols	2B4; NAIL; Nmrk; NKR2B4; SLAMF4
UniProt Protein Name	Natural killer cell receptor 2B4
UniProt Synonym Protein Names	NK cell activation-inducing ligand; NAIL; NK cell type I receptor protein 2B4; NKR2B4; h2B4; SLAM family member 4; SLAMF4; Signaling lymphocytic activation molecule 4; CD_antigen: CD244
Protein Family	Cytochrome
UniProt Gene Name	CD244
UniProt Synonym Gene Names	2B4; NAIL; NKR2B4; h2B4; SLAMF4
UniProt Entry Name	CD244_HUMAN
NCBI Protein Information	natural killer cell receptor 2B4; h2B4; SLAM family member 4; NK cell activation-inducing ligand; NK cell type I receptor protein 2B4; NK cell activation inducing ligand NAIL; signaling lymphocytic activation molecule 4

UniProt Comments for 2B4	CD244: Modulate other receptor-ligand interactions to enhance leukocyte activation. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Receptor, misc. Chromosomal Location of Human Ortholog: 1q23.3 Cellular Component: plasma membrane; integral to membrane; external side of plasma membrane Molecular Function: protein binding; receptor activity Biological Process: signal transduction; blood coagulation; leukocyte migration Disease: Rheumatoid Arthritis
Research Articles on 2B4	**1.** Blockade of 2B4/CD48 interaction resulted in improvement in function via perforin expression and degranulation as measured by CD107a surface mobilization on HTLV-1 specific CD8+ T cells.
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