

2B4/CD244 Active Protein | CD244 active protein

2B4/CD244 Protein, Human, Recombinant (His Tag)

CATALOG #
AAA257820

HOST
HEK293 Cells

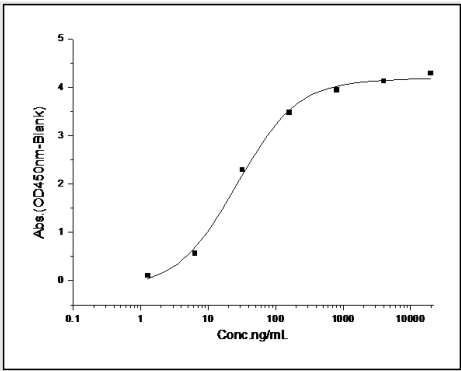
PRODUCT SYNONYMS

2B4/CD244; 2B4/CD244 Protein; Human; Recombinant (His Tag); Human 2B4/SLAMF/CD244 Protein (His Tag); 2B4 Protein; NAIL Protein; NKR2B4 Protein; Nmrk Protein; SLAMF4 Protein; CD244 molecule; natural killer cell receptor 2B4; CD244 active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>95% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Met1-Arg22 1
Species	Human
Activity	Measured by its binding ability in a functional ELISA. Immobilized human 2B4 at 2ug/ml (100uL/well) can bind human CD48. The EC50 of human CD48 is 0.39ug/ml.
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Cys 22
Tag	C-His
Protein Construction	A DNA sequence encoding the extracellular domain (Met 1-Arg 221) of human 2B4 (NP_057466.1) was expressed, with a polyhistidine tag at the C-terminus.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.

IMAGES



SDS-PAGE

Application Data
Measured by its binding ability in a functional ELISA. Immobilized human 2B4 at 2 ug/ml (100 ul/well) can bind human CD48. The EC50 of human CD48 is 0.39 ug/ml.

ADDITIONAL INFORMATION

Related Product Information for CD244 active protein	Background: The CD244 antigen, also known as 2B4, is a cell surface glycoprotein implicated in the regulation of natural killer and T lymphocyte function. 2B4 is a member of the signaling lymphocyte activation molecule (SLAM)-related receptor family and is important for stimulating NK cell cytotoxicity and cytokine production, which is expressed on all NK cells, a subpopulation of T cells, monocytes and basophils. The 2B4 antigen identified on NK cells and T cells is capable of transmitting stimulatory signals and non-MHC-restricted killing. Reported as an activating receptor, human 2B4 can effectively activate and enhance NK cell-mediated cytotoxicity, induce secretion of IFN-gamma and matrix metalloproteinases (MMPs), as well as NK cell invasiveness. As a cell surface glycoprotein of the Ig-superfamily structurally related to CD2-like molecules such as CD2, CD48, CD58, CD84, Ly-9, and SLAM, 2B4 (CD244) is expressed on all human NK cells, a subpopulation of T cells, basophils and monocytes. 2B4 activates NK cell mediated cytotoxicity, induces secretion of IFN-gamma and matrix metalloproteinases, and NK cell invasiveness.
Product Categories/Family for CD244 active protein	Cancer Drug Targets ITIM/ITAM Immunoreceptors and Related Molecules
References	Nakajima H, et al. (2000) 2B4: an NK cell activating receptor with unique specificity and signal transduction mechanism. Hum Immunol. 61(1): 39-43.Chuang SS, et al. (2001) 2B4 (CD244)-mediated activation of cytotoxicity and IFN-gamma release in human NK cells involves distinct pathways. J Immunol. 167(11): 6210-6.McNerney ME, et al. (2005) 2B4 (CD244) is a non-MHC binding receptor with multiple functions on natural killer cells and CD8+ T cells. Mol Immunol. 42(4): 489-94.Mathew SO, et al. (2009) Functional role of human NK cell receptor 2B4 (CD244) isoforms. Eur J Immunol. 39(6): 1632-41.

NCBI AND UNIPROT INFORMATION

NCBI GI #	7706529
NCBI GeneID	51744
NCBI Accession #	NP_057466.1
NCBI GenBank Nucleotide #	NM_016382.3
Molecular Weight	30,784 Da
NCBI Official Full Name	natural killer cell receptor 2B4 isoform 1
NCBI Official Synonym Full Names	CD244 molecule
NCBI Official Symbol	CD244
NCBI Official Synonym Symbols	2B4; NAIL; Nmrk; NKR2B4; SLAMF4
NCBI Protein Information	natural killer cell receptor 2B4

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/hek293-cells-active-protein/2b4-cd244/257820>