

2B4/CD244 Recombinant Protein | CD244 recombinant protein

Recombinant Mouse 2B4/CD244 Protein (ECD, His Tag), HPLC-verified

CATALOG # AAA259390	HOST HEK293 Cells	REACTIVITY Mouse
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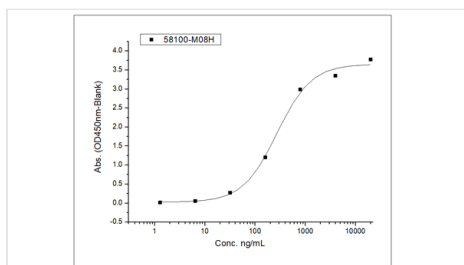
PRODUCT SYNONYMS

2B4/CD244; Recombinant Mouse 2B4/CD244 Protein (ECD; His Tag); HPLC-verified; Mouse 2B4/CD244 Protein (ECD; CD244 molecule; natural killer cell receptor 2B4; 2b4 Protein; Mouse; Cd244 Protein; Nmrk Protein; CD244 recombinant protein

PRODUCT SPECIFICATIONS

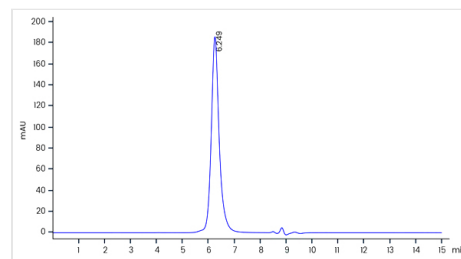
Host	HEK293 Cells
Reactivity	Mouse
Purity/Purification	>= 95% as determined by SDS-PAGE. >= 95% as determined by SEC-HPLC.
Form/Format	Lyophilized from sterile PBS, pH 7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Sequence	Met1-Pro22 6
Tag	C-His
Predicted N Terminal	Gln 20
Endotoxin	< 1.0 EU perug protein as determined by the LAL method.
Protein Construction	A DNA sequence encoding the Mouse CD244 (NP_061199.2)(Met1-Pro226) was expressed with a polyhistidine tag at the C-terminus.
Activity	Immobilized Recombinant Mouse 2B4/CD244 Protein (ECD, His Tag) at 2ug/mL (100uL/well) can bind Recombinant Mouse CD48/SLAMF2/BCM1 Protein (Fc Tag), the EC50is 180-550ng/mL.
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 unless customers require otherwise.

IMAGES

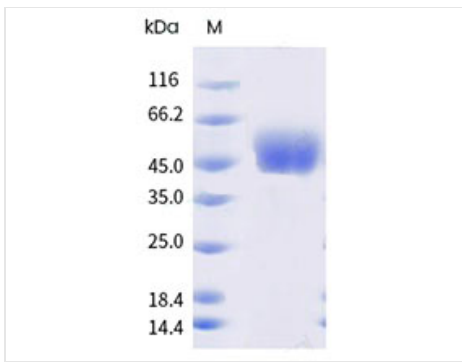


Application Data

Immobilized Recombinant Mouse 2B4/CD244 Protein (ECD, His Tag)(#AAA259390) at 2ug/mL (100uL/well) can bind Recombinant Mouse CD48/SLAMF2/BCM1 Protein (Fc Tag), the EC50is 180-550ng/mL.



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ADDITIONAL INFORMATION

Related Product Information for CD244 recombinant protein	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 recombinant protein	Cancer Drug Targets ITIM/ITAM Immunoreceptors and Related Molecules
References	Nakajim. H. e. al. (2000. 2B4. a. N. cel. activatin. recepto. wit. uniqu. specificit. an. signa. transductio. mechanism. Hu. Immunol. 61(1). 39-43.Chuan. SS. e. al. (2001. 2B. (CD244)-mediate. activatio. o. cytotoxicit. an. IFN-gamm. releas. i. huma. N. cell. involve. distinc. pathways. . Immunol. 167(11). 6210-6.McNerne. ME. e. al. (2005. 2B. (CD244. i. . non-MH. bindin. recepto. wit. multipl. function. o. natura. kille. cell. an. CD8. . cells. Mo. Immunol. 42(4). 489-94.Mathe. SO. e. al. (2009. Functiona. rol. o. huma. N. cel. recepto. 2B. (CD244. isoforms. Eu. . Immunol. 39(6). 1632-41.

NCBI AND UNIPROT INFORMATION

NCBI GI #	122114646
NCBI GeneID	18106
NCBI Accession #	NP_061199.2
NCBI GenBank Nucleotide #	NM_018729.2
UniProt Accession #	Q07763; O88654; Q3UV86; Q9JIE0
Molecular Weight	44,836 Da
NCBI Official Full Name	natural killer cell receptor 2B4
NCBI Official Synonym Full Names	CD244 natural killer cell receptor 2B4
NCBI Official Symbol	Cd244
NCBI Official Synonym Symbols	2B4; C9.1; Ly90; NAIL; Nmrk; NKR2B4; SLAMF4; F730046O15Rik
NCBI Protein Information	natural killer cell receptor 2B4; NK cell receptor 2B4; SLAM family member 4; NK cell type I receptor protein 2B4; non MHC restricted killing associated; non-MHC restricted killing associated; signaling lymphocytic activation molecule 4
UniProt Protein Name	Natural killer cell receptor 2B4

UniProt Gene Name	Cd244
UniProt Synonym Gene Names	2b4; Nmrk; NKR2B4; SLAMF4
UniProt Entry Name	CD244_MOUSE

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/cd244-recombinant-protein-hek293-cells/259390>