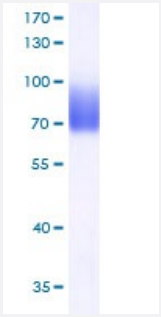
Bioactive HuPro®

CD244 (Human) Recombinant Protein

Catalog # P6780 Size 100 ug

Applications



CD244 (Human) Recombinant Protein (Cat # P6780) was determined by SDS-PAGE with Coomassie Blue, showing a band at 70-90 kDa.

Result of activity analysis

Result of activity analysis

Specification

Product Description	Human CD244 (NP_057466.1, 22 a.a. - 221 a.a.) partial recombinant protein with Fc, 6x His tag at C-terminal expressed in HEK293 cells.
Host	Human
Form	Lyophilized
Preparation Method	Mammalian cell (HEK293) expression system
Purification	Ni-sepharose purification
Purity	> 95% by SDS-PAGE
Endotoxin Level	< 0.1 EU/ug of the protein by LAL method.

Activity	Measured by the binding ability in a functional ELISA. Immobilized recombinant human CD48 at 5 ug /mL (100 uL/well) can bind CD244 (Human) Recombinant Protein (Cat # P6780) with a linear range of 0.2-1 ug/mL.
Quality Control Testing	SDS-PAGE Stained with Coomassie Blue CD244 (Human) Recombinant Protein (Cat # P6780) was determined by SDS-PAGE with Coomas sie Blue, showing a band at 70-90 kDa.
Recommend Usage	SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from PBS, pH 7.4.
Storage Instruction	Store the lyophilized protein at -20°C to -80°C for long term. After reconstitution to a concentration of 0.1-0.5 mg/mL in sterile distilled water, the protein solution i s stable at -20°C for 3 months, at 2-8°C for up to 1 week. Aliquot to avoid repeated freezing and thawing.
Note	Result of activity analysis Result of activity analysis

Applications

- SDS-PAGE

Gene Info — CD244

Entrez GeneID	51744
Protein Accession#	NP_057466.1
Gene Name	CD244
Gene Alias	2B4, NAIL, NKR2B4, Nmrk, SLAMF4
Gene Description	CD244 molecule, natural killer cell receptor 2B4
Omim ID	605554
Gene Ontology	Hyperlink

Gene Summary	Natural killer (NK) cells express both activating and inhibitory cell surface receptors. Inhibitory signaling receptors all possess cytoplasmic immunoreceptor tyrosine-based inhibitory motifs, or ITIMs, whereas the activating receptors lack ITIMs and associate with DAP12 (TYROBP; MIM 604142), which contains an immunoreceptor tyrosine-based activation motif, or ITAM. Killer cell immunoglobulin (Ig)-like receptors, or KIRs (see KIR2DL1; MIM 604936), and other NK cell receptors interact with major histocompatibility complex (MHC) molecules (see MIM 142800). Members of the CD2 (MIM 186990) family adhere to each other instead. The cell surface glycoprotein 2B4 is related to CD2 and is implicated in the regulation of NK- and T-cell function (Boles et al., 1999 [PubMed 10458320]).[supplied by OMIM
Other Designations	CD244 natural killer cell receptor 2B4|NK cell activation inducing ligand NAIL|OTTHUMP00000027884|natural killer cell receptor 2B4

Pathway

- Natural killer cell mediated cytotoxicity

Disease

- Arthritis
- Cell Transformation
- Genetic Predisposition to Disease
- Lupus Erythematosus
- Tobacco Use Disorder