

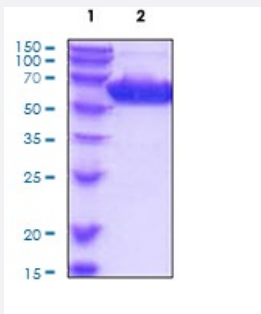
Bioactive

CD244 (Human) Recombinant Protein

Catalog # P8009

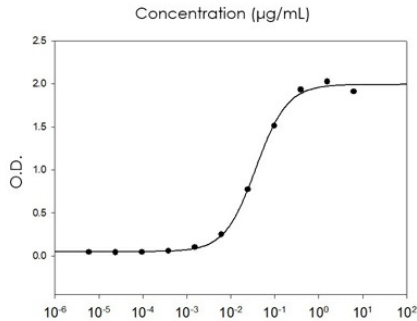
Size 100 ug

Applications



Result of bioactivity analysis

Result of bioactivity analysis



Specification

Product Description

Human CD244 (Q9BZW8, 19 a.a. - 224 a.a.) partial length recombinant protein with hlgG-His tag expressed in Baculovirus expression system.

Sequence

GKGCQGSADHVVSISGVPLQLQPNSIQTKVDSIAWKKLLPSQNGFHHILKWENGSLPSNTSNDRF
SFIVKNLSLLIKAAQQQDSGLYCLEVTSISGKVQTATFQVFVFESLLPDKVEKPRLQGGQKILDRGR
CQVALSCLVSRDGNVSYAWYRGSKLIQTAGNLTYLDEEVDINGHTYTCNVSNPVSWEHTLNL
TQDCQNAHQE

Host

Viruses

Theoretical MW (kDa)

50.2

Form	Liquid
Preparation Method	Baculovirus expression system
Purity	> 90% by SDS-PAGE
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Activity	ED ₅₀ is < 0.1 ug/mL, measured by the binding ability in a functional ELISA with Human CD48/SLAM F2.
Quality Control Testing	3 ug by SDS-PAGE under reducing condition and visualized by Coomassie blue stain.
Storage Buffer	In Phosphate-Buffer Saline pH 7.4 (10% glycerol)
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of bioactivity analysis Result of bioactivity analysis

Applications

- Functional Study
- SDS-PAGE

Gene Info — CD244

Entrez GeneID	51744
Protein Accession#	Q9BZW8
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 10 458320]).[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](#)