

# Recombinant Human CD244 Protein, C-His&AVI-tagged, Biotinylated

## Product Information

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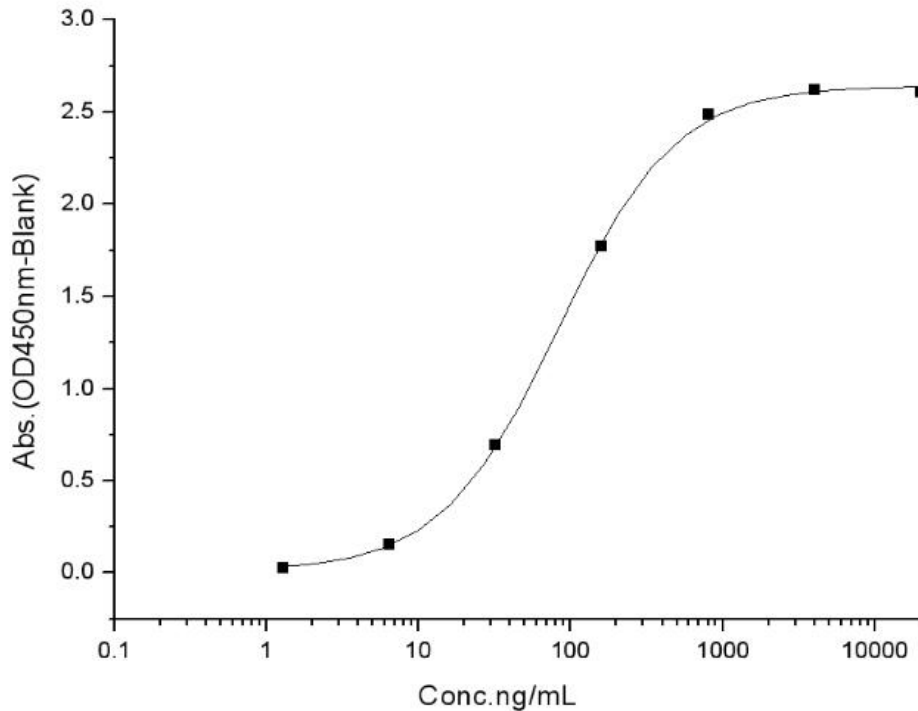
<b>Cat</b>	IMP-1562
<b>Official Symbol</b>	CD244
<b>Product Overview</b>	<i>Recombinant human CD244 (NP_057466.1) (Met1-Arg221) was expressed with a c-terminal polyhistidine tagged AVI tag at the C-terminus. The expressed protein was biotinylated in vivo by the Biotin-Protein ligase (BirA enzyme) which is co-expressed.</i>
<b>Description</b>	<i>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-<math>\gamma</math> 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.</i>
<b>Expression System</b>	HEK293
<b>Species</b>	Human
<b>Tag</b>	C-His&AVI
<b>Predicted N Terminal</b>	Cys 22
<b>Form</b>	<i>Lyophilized from sterile PBS, pH 7.4, 5 % trehalose, 5% mannitol and 0.01% Tween80.</i>
<b>Molecular Mass</b>	<i>The recombinant human CD244 consists of 226 amino acids and predicts a molecular mass of 25.52 kDa. It migrates as an approximately 48.36 kDa band in SDS-PAGE under reducing conditions.</i>
<b>Protein length</b>	Met1-Arg221
<b>Endotoxin</b>	< 1.0 EU/ $\mu$ g protein as determined by the LAL method.
<b>Purity</b>	> 90 % as determined by SDS-PAGE

**Storage**

Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade. Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

**Reconstitution**

A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.

**Bioactivity-ELI**

**Measured by its binding ability in a functional ELISA. Immobilized Human CD48 hFc at 2  $\mu$ g/mL (100  $\mu$ L/well) can bind Human 2B4/CD244 Biotinylated, the EC50 of Human 2B4/CD244 Biotinylated is 30-240 ng/mL.**