

Recombinant Human 2B4

Catalog No: CS61

Description	Recombinant Human Natural Killer Cell Receptor 2B4 is produced by our Mammalian expression system and the target gene encoding Cys22-Arg221 is expressed with a 6His tag at the C-terminus.
Source	Human Cells
Alternative name	Natural killer cell receptor 2B4; NK cell activation-inducing ligand; NAIL; NKR2B4; h2B4; SLAM family member 4; SLAMF4; CD244; 2B4
Accession No.	Q9BZW8-2
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.
Quality Control	Purity: Greater than 95% as determined by reducing SDS-PAGE. Endotoxin: Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
Storage	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Amino Acid Sequence	CQGSADHVVSISGVPLQLQPNSIQTKVDSIAWKLLPSQNGFHHILKWENGSLPSNTSNDRFSSFIVKNLS LLIKAAQQQDSGLYCLEVTSISGKVQTATFQVFVFDKVEKPRLQGQGGKILDRGRCQVALSCLVSRDGNV SYAWYRGSKLIQTAGNLTYLDEEVDINGTH TYTCNVSNPVSWEHTLNLTDQCQNAHQEFRHHHHHH
Background	Natural killer cell receptor 2B4 is a type I transmembrane glycoprotein in the SLAM subgroup of the CD2 protein family. 2B4 interacts with CD48, while other SLAM family proteins interact homophilically. Three additional splice variants of human 2B4 have deletions of the short region between the Ig-like domains, the second Ig-like domain, or a portion of the cytoplasmic tail. 2B4 is expressed on all NK cells, γ δ T cells, monocytes, some CD4+ and CD8+ T cells, and some dendritic cells. CD48 mediates 2B4+ cell interactions with nearly all hematopoietic cell types, including cells of the same type. 2B4/CD48 signaling cooperates with other receptor systems to either promote or inhibit NK and CD8+ T cell activation. The inhibitory activities are distinct from those of MHC I restricted inhibitory NK cell receptors. Ligation of 2B4 with antibodies or CD48 constructs can either directly trigger inhibitory signaling or disrupt an inhibitory interaction, leading to cellular activation. The inhibitory effect is associated with the long form of 2B4, while the activation is associated with the short form. 2B4 can also induce signaling through CD48.

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