

**RPES8431**

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## Product Information

<b>Product SKU:</b> RPES8431	<b>Expression Host:</b> Mammalian	<b>Size:</b> 20µg
<b>Tag:</b> C-His	<b>Reactivity:</b> Mouse	<b>Accession:</b> Q07763

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## Additional Information

<b>Calculated MW:</b> 22.6 kDa	<b>Observed MW:</b> 40-60 kDa
<b>Sequence:</b> Gln20-Pro226	

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## Protein Information

**Background:** 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.

**Synonyms:** 2B4, C9.1, CD244, CD244 antigen, CD244 molecule, CD244 molecule natural killer cell receptor 2B4, CD244 natural killer cell receptor 2B4, CD244, F730046O15Rik, h2B4, Ly90, NAIL, Natural killer cell activation-inducing ligand, Natural killer cell receptor 2B4, NK cell activation inducing ligand, NK cell activation inducing ligand NAIL, NK cell activation-inducing ligand, NK cell type I receptor protein 2B4, NKR2B4, Nmrk,

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Non-MHC restricted killing associated, OTTHUMP00000027884, p38, signaling lymphocytic activation molecule 4, SLAM family, member 4, SLAMF4

**Endotoxin:** < 1.0 EU/mg of the protein as determined by the LAL method

**Formulation:** Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol.

**Purity:** > 90% as determined by reducing SDS-PAGE.

**Bio-Activity:** Not validated for activity

**Storage:** Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.