

## Anti-2B4/CD244 Antibody (1B831)

### Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	1B831
Purification:	Protein A

### Applications

Verified Activity:	<p>1. Anti-2B4 rabbit monoclonal antibody at 1:500 dilution.</p> <ul style="list-style-type: none"><li>-Lane A: Daudi Whole Cell lysate.</li><li>-Lysates/proteins at 30 µg per lane.</li><li>-Secondary</li><li>-Goat Anti-Rabbit IgG H&amp;L (Dylight800) at 1/10000 dilution.</li><li>-Developed using the Odyssey technique.</li><li>-Performed under reducing conditions.</li><li>-Predicted band size:42 kDa.</li><li>-Observed band size:28 kDa(We are unsure as to the identity of these extra bands.)</li></ul> <p>2. 2B4 was immunoprecipitated using:</p> <ul style="list-style-type: none"><li>-Lane A:0.5 mg Daudi Whole Cell Lysate.</li><li>-2 µL anti-2B4 rabbit monoclonal antibody and 15 µl of 50 % Protein G agarose.</li><li>-Primary antibody:</li><li>-Anti-2B4 rabbit monoclonal antibody, at 1:200 dilution.</li><li>-Secondary antibody:</li><li>-Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution.</li><li>-Developed using the odyssey technique.</li><li>-Performed under reducing conditions.</li><li>-Predicted band size: 42 kDa.</li><li>-Observed band size: 28 kDa</li></ul>
Application:	ELISA(Cap),IP,WB
Recommended	WB: 1:500-1:2000; IP: 1-4 µL/mg of lysate; ELISA(Cap): 1:250-1:2000

### Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

### Antigen Details

Immunogen: Recombinant Protein: Human 2B4 / CD244 protein (TMPY-01568)  
Antigen Species: Human  
Synonyms: NAIL;SLAMF4;CD244 molecule, natural killer cell receptor 2B4;NKR2B4;2B4;Nmrk  
Biology Area: Cancer Drug Targets, ITIM/ITAM Immunoreceptors and Related Molecules

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### Research 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. Cancer Immunotherapy Co-inhibitory Immune Checkpoint Targets Immune Checkpoint Immune Checkpoint Detection: Antibodies Immune Checkpoint Detection: ELISA Antibodies Immune Checkpoint Detection: FCM Antibodies Immune Checkpoint Detection: IP Antibodies Immune Checkpoint Proteins Immune Checkpoint Targets Immunotherapy Targeted Therapy

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