

## 2B4/CD244 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P72746
Synonyms:	Natural killer cell receptor 2B4; NAIL; NKR2B4; h2B4; SLAMF4; CD244; 2B4
Species:	Mouse
Source:	HEK293
Accession:	Q07763 (Q20-N221)
Gene ID:	18106
Molecular Weight:	35-60 kDa

### PROPERTIES

AA Sequence	<p>           Q D C P D S S E E V    V G V S G K P V Q L    R P S N I Q T K D V    S V Q W K K T E Q G            S H R K I E I L N W    Y N D G P S W S N V    S F S D I Y G F D Y    G D F A L S I K S A            K L Q D S G H Y L L    E I T N T G G K V C    N K N F Q L L I L D    H V E T P N L K A Q            W K P W T N G T C Q    L F L S C L V T K D    D N V S Y A L Y R G    S T L I S N Q R N S            T H W E N Q I D A S    S L H T Y T C N V S    N R A S W A N H T L    N F T H G C Q S V P            S N         </p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	<p>The function of CD244 is to regulate the activity of natural killer (NK) cells and CD8+ T-cells. It acts as an activating receptor for NK cells, stimulating their cytotoxicity, production of IFN-gamma, and granule exocytosis. CD244 also enhances signals from other NK receptors, such as NCR3 and NCR1, to further activate NK cells. It is involved in the regulation of CD8+ T-cell proliferation and provides costimulatory-like function for neighboring T-cells. CD244 can also inhibit inflammatory responses in dendritic cells. The presence or absence of small cytoplasmic adapter proteins, SH2D1A/SAP and SH2D1B/EAT-2, control the activity of CD244. It interacts with various proteins, including SH2D1A, FYN, VAV1, INPP5D/SHIP1, CBL,</p>
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PTPN6/SHP-1, PTPN11/SHP-2, CSK, and MHC class I proteins. The interaction with CD48 is important for its function, and engagement of CD244 with CD48 expressed on neighboring NK cells is crucial for optimal expansion and activation of NK cells.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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