

# NK 2B4 (h): 293T Lysate: sc-117189

## BACKGROUND

Natural killer (NK) cells are bone marrow-derived lymphocytes that can kill certain tumor cells and virally infected cells. There are multiple immunoglobulin superfamily (IgSF) receptor-ligand interactions that coordinate NK cell recognition of target cells and cytolytic function. The IgSF receptor NK 2B4 (CD244) is a ligand for CD48 that is expressed on the surface of all mouse and human NK cells and the subset of T cells that mediate NK-like killing. NK 2B4 is a cell surface glycoprotein of the immunoglobulin superfamily that is involved in the regulation of natural killer and T lymphocyte function. NK 2B4 binds the Src homology 2 domain-containing protein (SH2D1A) or signaling lymphocyte activation molecule (SLAM)-associated protein (SAP), which may function as regulators of NK 2B4-associated signal transduction pathways. NK 2B4 is expressed in human spleen, peripheral blood leukocytes, lymph node, bone marrow and fetal liver.

## REFERENCES

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3. Nakajima, H., Cella, M., Langen, H., Friedlein, A. and Colonna, M. 1999. Activating interactions in human NK cell recognition: the role of 2B4-CD48. *Eur. J. Immunol.* 29: 1676-1683.
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6. Kumaresan, P.R., Stepp, S.E., Verrett, P.C., Chuang, S.S., Boles, K.S., Lai, W.C., Ryan, J.C., Bennett, M., Kumar, V. and Mathew, P.A. 2000. Molecular characterization of the rat NK cell receptor 2B4. *Mol. Immunol.* 37: 735-744.

## CHROMOSOMAL LOCATION

Genetic locus: CD244 (human) mapping to 1q23.3.

## PRODUCT

NK 2B4 (h): 293T Lysate represents a lysate of human NK 2B4 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

## STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

## APPLICATIONS

NK 2B4 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive NK 2B4 antibodies. Recommended use: 10-20 µl per lane.

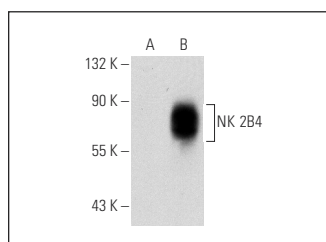
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

NK 2B4 (HD2): sc-53596 is recommended as a positive control antibody for Western Blot analysis of enhanced human NK 2B4 expression in NK 2B4 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

## DATA



NK 2B4 (HD2): sc-53596. Western blot analysis of NK 2B4 expression in non-transfected: sc-117752 (A) and human NK 2B4 transfected: sc-117189 (B) 293T whole cell lysates.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.