

NKp44 (2.29): sc-53597

BACKGROUND

Natural killer (NK) cells direct cytotoxicity against tumor or virally infected cells. NK cell-mediated cytotoxicity is stimulated by several activating receptors associated with the signaling adapter DNAX activation 12/killer cell-activating receptor-associated protein (DAP12). NKp44 is a natural cytotoxicity receptor that is expressed on IL-2-activated human NK cells and may contribute to the increased efficiency of NK cells to mediate tumor cell lysis. NKp44 is composed of one Ig-like extracellular domain, a transmembrane segment and a cytoplasmic domain. Prolactin upregulates and cortisol downregulates the surface expression of NKp44 at the transcriptional level. A cellular ligand for NKp44 (NKp44L) is expressed during HIV-1 infection and is correlated with the progression of CD4⁺ T cell depletion and an increase of viral load. This implicates NKp44 as a therapeutic agent that may aid in the progress towards a vaccine for HIV-1 infection.

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CHROMOSOMAL LOCATION

Genetic locus: NCR2 (human) mapping to 6p21.1.

SOURCE

NKp44 (2.29) is a mouse monoclonal antibody raised against NKp44 of human origin.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

NKp44 (2.29) is available conjugated to either phycoerythrin (sc-53597 PE) or fluorescein (sc-53597 FITC), 200 µg/ml, for IF, IHC(P) and FCM.

APPLICATIONS

NKp44 (2.29) is recommended for detection of NKp44 of human origin by flow cytometry (1 µg per 1 x 10⁶ cells).

Suitable for use as control antibody for NKp44 siRNA (h): sc-72170, NKp44 shRNA Plasmid (h): sc-72170-SH and NKp44 shRNA (h) Lentiviral Particles: sc-72170-V.

Molecular Weight of NKp44: 44 kDa.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.