SANTA CRUZ BIOTECHNOLOGY, INC.

NKG2-C (L45): sc-80237

BACKGROUND

The activity of natural killer (NK) cells is regulated by members of multiple receptor families that recognize class I MHC molecules, such as the killer cell inhibitory receptor/leukocyte immunoglobulin-like receptor (KIR/LIR) family and the C-type lectin superfamily. CD94, NKG2 and Ly-49 are members of the C-type lectin superfamily of type II membrane glycoproteins. NKG2-C, also known as killer cell lectin-like receptor subfamily C member 2 (KLRC2), belongs to the NKG2 family of genes. It forms a heterodimer with CD94 and through this interaction is then transported to the surface of NK cells. At the surface, the CD94/NKG2-C non-covalently associates with DAP12 for efficient expression. Upon binding of the receptor ligand HLA-E to the CD94/NKG2-C heterodimeric receptor, NK cell cytolytic activity is activated.

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CHROMOSOMAL LOCATION

Genetic locus: KLRC2 (human) mapping to 12p13.2.

RESEARCH USE

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

SOURCE

NKG2-C (L45) is a mouse monoclonal antibody raised against BaF/3 mouse peripheral blood cells transfected with NKG2-C and CD94 of human origin.

PRODUCT

Each vial contains 100 µg IgG_1 in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

NKG2-C (L45) is recommended for detection of NKG2-C of human origin by flow cytometry (1 µg per 1 x 10^6 cells).

Suitable for use as control antibody for NKG2-C siRNA (h): sc-72387, NKG2-C shRNA Plasmid (h): sc-72387-SH and NKG2-C shRNA (h) Lentiviral Particles: sc-72387-V.

Molecular Weight of NKG2-C: 36 kDa.

STORAGE

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

PROTOCOLS

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