SANTA CRUZ BIOTECHNOLOGY, INC.

NKG2 (6A447): sc-71706

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

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. The KIR/LIR family includes p91A (also designated pp130 or PIR-B, for paired immunoglobulin-like receptor-B) and p91B (also designated PIR-A). p91A acts as an inhibitory receptor through interactions with SHP-1, whereas p91B acts as an activating receptor. CD94, NKG2 and Ly-49 are members of the C-type lectin superfamily of type II membrane glycoproteins. CD94 forms heterodimers with NKG2 isoforms on the surface of NK cells, whereas Ly-49 isoforms form homodimers. NKG2-D, expressed on NK cells, gdT cells and $CD8^{+}\alpha\beta$ T cells, is a receptor for the stress inducible protein MICA, an antigen frequently expressed in epithelial tumors.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Klrk1/Klrc2/Klrc3 (mouse) mapping to 6 F3.

SOURCE

NKG2 (6A447) is a rat monoclonal antibody raised against NKG2 of mouse origin.

PRODUCT

Each vial contains 200 µg IgG_{2a} in 1.0 ml PBS with < 0.1% sodium azide and 0.1% gelatin.

NKG2 (6A447) is available conjugated to either phycoerythrin (sc-71706 PE) or fluorescein (sc-71706 FITC), 200 µg/ml, for IF, IHC(P) and FCM.

APPLICATIONS

NKG2 (6A447) is recommended for detection of NKG2-A, NKG2-C, and NKG2-E of mouse origin by flow cytometry (1 µg per 1 x 10^6 cells).

Molecular Weight of NKG2: 31-43 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.