

NKG2 (20D5): sc-53026

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: Klrc1/Klrc2/Klrc3 (mouse) mapping to 6 F3.

SOURCE

NKG2 (20D5) is a rat monoclonal antibody raised against NKG2 of mouse origin.

PRODUCT

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

NKG2 (20D5) is available conjugated to agarose (sc-53026 AC), 500 μ g/0.25 ml agarose in 1 ml, for IP; to HRP (sc-53026 HRP), 200 μ g/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-53026 PE), fluorescein (sc-53026 FITC), Alexa Fluor[®] 488 (sc-53026 AF488), Alexa Fluor[®] 546 (sc-53026 AF546), Alexa Fluor[®] 594 (sc-53026 AF594) or Alexa Fluor[®] 647 (sc-53026 AF647), 200 μ g/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor[®] 680 (sc-53026 AF680) or Alexa Fluor[®] 790 (sc-53026 AF790), 200 μ g/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS

NKG2 (20D5) is recommended for detection of NKG2-A, NKG2-C, and NKG2-E of mouse origin by flow cytometry (1 μ g per 1 x 10⁶ 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.