

CD94 (6A343): sc-70815

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 Immuno-globulin-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⁺ ab 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: Klr1d1 (mouse) mapping to 6 F3.

SOURCE

CD94 (6A343) is a rat monoclonal antibody raised against B6 allele of CD94 of mouse origin.

RESEARCH USE

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

PRODUCT

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

CD94 (6A343) is available conjugated to either phycoerythrin (sc-70815 PE) or fluorescein (sc-70815 FITC), 200 µg/ml, for IF, IHC(P) and FCM.

APPLICATIONS

CD94 (6A343) is recommended for detection of CD94 of mouse origin by flow cytometry (1 µg per 1 x 10⁶ cells).

Suitable for use as control antibody for CD94 siRNA (m): sc-42934, CD94 shRNA Plasmid (m): sc-42934-SH and CD94 shRNA (m) Lentiviral Particles: sc-42934-V.

Molecular Weight of CD94: 21 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.