

KLRF1 (N-14): sc-243220

BACKGROUND

KLRF1 (Killer cell lectin-like receptor subfamily F member 1), also known as CLEC5C or activating coreceptor NKp80, is a member of the MHC class I-specific KLR family of type II transmembrane glycoproteins. It contains a single extracellular C-type lectin-like domain, two tyrosine-based motifs in the cytoplasmic domain and, unlike its family members, KLRF1 does not contain any charged transmembrane residues. KLRF1 exists as a homodimer and its expression is restricted to mature leukocytes, Natural Killer (NK) cells and Natural Killer T (NKT) cells. It functions in stimulating NK cell cytotoxicity, the release of proinflammatory cytokines and it induces calcium influx. KLRF1 interacts with the AICL (activation induced C-type lectin) ligand. This interaction plays a role in the activation of crosstalk between NK cells and myeloid cells and may contribute to the initiation and maintenance of immune responses.

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CHROMOSOMAL LOCATION

Genetic locus: KLRF1 (human) mapping to 12p13.31.

SOURCE

KLRF1 (N-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an N-terminal cytoplasmic domain of KLRF1 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-243220 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

KLRF1 (N-14) is recommended for detection of KLRF1 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with KLRF2.

Suitable for use as control antibody for KLRF1 siRNA (h): sc-72386, KLRF1 shRNA Plasmid (h): sc-72386-SH and KLRF1 shRNA (h) Lentiviral Particles: sc-72386-V.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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 or our catalog for detailed protocols and support products.