

KIR3DL1 (N-20): sc-30313

BACKGROUND

The killer immunoglobulin-like receptors (KIRs) on Natural Killer (NK) cells regulate the inhibition and activation of NK-cell responses through recognition of human leukocyte antigen (HLA) class I molecules. KIR3DL1, a receptor for HLA-B antigens with the Bw4 allele, transmits an inhibitory signal to prevent killer cell-mediated cytotoxicity. KIR3DL1 encodes a 444-amino acid type I transmembrane protein, containing three immunoglobulin-like C2-type domains. Human KIR3DL1 maps to chromosome 19q13.42.

REFERENCES

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2. Wende, H., Colonna, M., Ziegler, A., Volz, A. 1999. Organization of the leukocyte receptor cluster (LRC) on human chromosome 19q13.4. *Mamm. Genome* 10: 154-160.
3. Kwon, D., Chwae, Y., Choi, I., Park, J., Kim, S., Kim, J. 2000. Diversity of the p70 killer cell inhibitory receptor (KIR3DL) family members in a single individual. *Mol. Cells* 1: 54-60.
4. Martin, M., Gao, X., Lee, J., Nelson, G., Detels, R., Goedert, J., Buchbinder, S., Hoots, K., Vlahov, D., Trowsdale, J., Wilson, M., O'Brien, S., Carrington, M. 2002. Epistatic interaction between KIR3DS1 and HLA-B delays the progression to AIDS. *Nat. Genet.* 4: 429-434.

SOURCE

KIR3DL1 (N-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an extracellular domain of KIR3DL1 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-30313 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

KIR3DL1 (N-20) is recommended for detection of a broad range of KIR family members of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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).

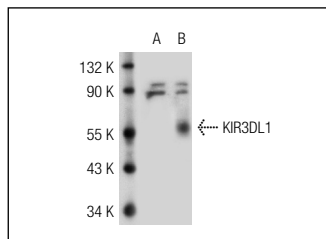
Molecular Weight of KIR3DL1: 50 kDa.

Positive Controls: KIR3DL1 (h): 293T Lysate: sc-114644.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



KIR3DL1 (N-20): sc-30313. Western blot analysis of KIR3DL1 expression in non-transfected: sc-117752 (A) and human KIR3DL1 transfected: sc-114644 (B) 293T whole cell lysates.

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.



Try **KIR3DL1 (B-8): sc-377220** or **KIR3DL1 (C-8): sc-514336**, our highly recommended monoclonal alternatives to KIR3DL1 (N-20).