

# KIR3DL1 (C-18): sc-30311

## 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

1. Vyas, Y., Selvakumar, A., Steffens, U., Dupont, B. 1998. Multiple transcripts of the killer cell immunoglobulin-like receptor family, KIR3DL1 (NKB1), are expressed by natural killer cells of a single individual. *Tissue Antigens* 6: 510-519.
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.

## CHROMSOMAL LOCATION

Genetic locus: KIR3DL1 (human) mapping to 19q13.42.

## SOURCE

KIR3DL1 (C-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within a cytoplasmic 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-30311 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

KIR3DL1 (C-18) is recommended for detection of KIR3DL1 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).

Suitable for use as control antibody for KIR3DL1 siRNA (h): sc-106832, KIR3DL1 shRNA Plasmid (h): sc-106832-SH and KIR3DL1 shRNA (h) Lentiviral Particles: sc-106832-V.

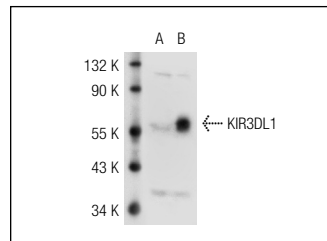
Molecular Weight of KIR3DL1: 50 kDa.

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 (C-18): sc-30311. Western blot analysis of KIR3DL1 expression in non-transfected: sc-117752 (A) and human KIR3DL1 transfected: sc-114644 (B) 293T whole cell lysates.

## 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](http://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 (C-18).