**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 3 immunoglobulin-like C2-type domains. Human KIR3DL1 maps to chromosome 19q13.4.

**REFERENCES**


**SOURCE**

KIR3DL1 (B-8) is a mouse monoclonal antibody raised against a peptide mapping within a cytoplasmic domain of KIR3DL1 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin. KIR3DL1 (B-8) is available conjugated to agarose (sc-377220 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-377220 HRP), 200 µg/ml, for WB, IHC/IP and ELISA; to either phycocerythrin (sc-377220 PE), fluorescein (sc-377220 FITC), Alexa Fluor® 488 (sc-377220 AF488), Alexa Fluor® 546 (sc-377220 AF546), Alexa Fluor® 594 (sc-377220 AF594) or Alexa Fluor® 647 (sc-377220 AF647), 200 µg/ml, for WB (RGB), IF, IHC/IP and FCM; and to either Alexa Fluor® 680 (sc-377220 AF680) or Alexa Fluor® 790 (sc-377220 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-377220 P, 100 µg peptide in 0.5 ml PBS containing <0.1% sodium azide and 0.2% stabilizer protein.

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**APPLICATIONS**

KIR3DL1 (B-8) is recommended for detection of KIR2DL1, KIR2DL2, KIR2DL3, KIR3DL1 and KIR3DL3 of human origin by Western Blotting (starting dilution 1:100, 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 or human liver extract: sc-363766.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:


**DATA**

KIR3DL1 (B-8): sc-377220. Western blot analysis of KIR3DL1 expression in non-transfected: sc-117752 (A) and human KIR3DL1 transfected: sc-114644 (B) 293T whole cell lysates.

KIR3DL1 (B-8): sc-377220. Western blot analysis of KIR3DL1 expression in human liver tissue extract.

**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.