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### Zuschläge

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- Expressversand

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# KIR2DL3 (h3): 293T Lysate: sc-174630

## BACKGROUND

NKAT (NK-associated transcripts) gene products, known as killer immunoglobulin-like receptors or KIRs, downregulate the cytotoxicity of NK cells upon recognition of specific class I major histocompatibility complex (MHC) molecules on target cells. This family of receptors is characterized by an extracellular region with two to three immunoglobulin-superfamily domains and a cytoplasmic domain with an antigen receptor activation motif (ARAM). KIRs and other inhibitory receptors also possess a common cytoplasmic sequence (I/VxYxxL/V) known as an ITIM (immunoreceptor tyrosine-based inhibitory motif). The human inhibitory human killer cell immunoglobulin-like receptor 2DL3 (KIR2DL3), also referred to as CD158b, is an inhibitory receptor that is specific for the human MHC class I molecule HLA-Cw3 and related alleles.

## REFERENCES

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2. Maenaka, K., et al. 1999. Crystal structure of the human p58 killer cell inhibitory receptor (KIR2DL3) specific for HLA-Cw3-related MHC class I. *Structure* 7: 391-398.
3. Uhrberg, M., et al. 2002. Definition of gene content for nine common group B haplotypes of the Caucasoid population: KIR haplotypes contain between seven and eleven KIR genes. *Immunogenetics* 54: 221-229.
4. Moodie, S.J., et al. 2002. Analysis of candidate genes on chromosome 19 in coeliac disease: an association study of the KIR and LILR gene clusters. *Eur. J. Immunogenet.* 29: 287-291.
5. Keaney, L., et al. 2004. Investigation of killer cell immunoglobulin-like receptor gene diversity III. KIR2DL3. *Tissue Antigens* 64: 188-194.
6. Vitale, M., et al. 2004. Isolation of a novel KIR2DL3-specific mAb: comparative analysis of the surface distribution and function of KIR2DL2, KIR2DL3 and KIR2DS2. *Int. Immunol.* 16: 1459-1466.
7. Trompeter, H.I., et al. 2005. Three structurally and functionally divergent kinds of promoters regulate expression of clonally distributed killer cell Ig-like receptors (KIR), of KIR2DL4, and of KIR3DL3. *J. Immunol.* 174: 4135-4143.
8. Montes-Cano, M.A., et al. 2006. HLA-C and KIR genes in hepatitis C virus infection. *Hum. Immunol.* 66: 1106-1109.
9. Jones, D.C., et al. 2006. Killer Ig-like receptor (KIR) genotype and HLA ligand combinations in ulcerative colitis susceptibility. *Genes Immun.* 7: 576-582.

## STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.

## CHROMOSOMAL LOCATION

Genetic locus: KIR2DL3 (human) mapping to 19q13.42.

## PRODUCT

KIR2DL3 (h3): 293T Lysate represents a lysate of human KIR2DL3 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

## APPLICATIONS

KIR2DL3 (h3): 293T Lysate is suitable as a Western Blotting positive control for human reactive KIR2DL3 antibodies. Recommended use: 10-20 µl per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

## RESEARCH USE

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