



# Anti-KIR3DL3 polyclonal antibody (CABT-BL004)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

|                           |                                                    |
|---------------------------|----------------------------------------------------|
| <b>Immunogen</b>          | Recombinant protein of human KIR3DL3               |
| <b>Isotype</b>            | IgG                                                |
| <b>Source/Host</b>        | Rabbit                                             |
| <b>Species Reactivity</b> | Human                                              |
| <b>Purification</b>       | Affinity purification                              |
| <b>Conjugate</b>          | Unconjugated                                       |
| <b>Applications</b>       | WB                                                 |
| <b>Molecular Weight</b>   | 45kDa                                              |
| <b>Format</b>             | Liquid                                             |
| <b>Size</b>               | 100 µl                                             |
| <b>Buffer</b>             | PBS with 0.02% sodium azide, 50% glycerol, pH 7.3. |
| <b>Preservative</b>       | 0.02% Sodium Azide                                 |
| <b>Storage</b>            | Store at -20°C. Avoid freeze / thaw cycles.        |

## BACKGROUND

|                     |                                                                                                                                                                                     |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Introduction</b> | Killer cell immunoglobulin-like receptors (KIRs) are transmembrane glycoproteins expressed by natural killer cells and subsets of T cells. The KIR genes are polymorphic and highly |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

homologous and they are found in a cluster on chromosome 19q13.4 within the 1 Mb leukocyte receptor complex (LRC). The gene content of the KIR gene cluster varies among haplotypes, although several "framework" genes are found in all haplotypes (KIR3DL3, KIR3DP1, KIR3DL4, KIR3DL2). The KIR proteins are classified by the number of extracellular immunoglobulin domains (2D or 3D) and by whether they have a long (L) or short (S) cytoplasmic domain. KIR proteins with the long cytoplasmic domain transduce inhibitory signals upon ligand binding via an immune tyrosine-based inhibitory motif (ITIM), while KIR proteins with the short cytoplasmic domain lack the ITIM motif and instead associate with the TYRO protein tyrosine kinase binding protein to transduce activating signals. The ligands for several KIR proteins are subsets of HLA class I molecules; thus, KIR proteins are thought to play an important role in regulation of the immune response. This gene is one of the "framework" loci that is present on all haplotypes.

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## GENE INFORMATION

Entrez Gene ID [115653](#)

UniProt ID [Q8N743](#)

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