

## APC/Fire™ 750 anti-human CD158e1 (KIR3DL1, NKB1) Antibody

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| <b>Catalog# / Size</b>   | 389509 / 25 tests<br>389510 / 100 tests                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Clone</b>             | S22024B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Regulatory Status</b> | RUO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Other Names</b>       | CD158e, Killer Cell Immunoglobulin-Like Receptor 3DL1, NKAT3, NKB1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Isotype</b>           | Mouse IgG1, κ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>       | CD158 molecules, also known as KIRs (killer cell immunoglobulin-like receptors), are a family of transmembrane proteins with either two (KIR2D) or three (KIR3D) Ig-like extracellular domains. Some KIRs with long cytoplasmic domains contain ITIMs and possess inhibitory functions and others with short cytoplasmic region lack ITIM and have activation functions. Fifteen polymorphic KIR genes have been reported in humans. CD158e is a 50 kD three extracellular Ig domain glycoprotein that displays a long cytoplasmic tail with two ITIM motifs. It is expressed primarily on a subset of NK cells and a subset of T cells. KIR3DL1 has been reported to bind to a number of different MHC class molecules that contain the HLA Bw4 epitope and CD8aa. |

### Product Details

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Verified Reactivity</b>    | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Antibody Type</b>          | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Host Species</b>           | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Immunogen</b>              | KIR3DL1-transfected cells                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Formulation</b>            | Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Preparation</b>            | The antibody was purified by affinity chromatography and conjugated with APC/Fire™ 750 under optimal conditions.                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Concentration</b>          | Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our <a href="#">Certificate of Analysis</a> online tool.)                                                                                                                                                                                                                                                                                                                       |
| <b>Storage &amp; Handling</b> | The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>                                                                                                                                                                                                                                                                                                                                       |
| <b>Application</b>            | <a href="#">FC - Quality tested</a>                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Recommended Usage</b>      | Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> . For flow cytometric staining, the suggested use of this reagent is 5 µL per million cells in 100 µL staining volume or 5 µL per 100 µL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.<br><br>* APC/Fire™ 750 has a maximum excitation of 650 nm and a maximum emission of 774 nm. |
| <b>Excitation Laser</b>       | Red Laser (633 nm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Application Notes</b>      | Clone S22024B does not block the binding of clone DX9 on target cells.<br><br>Based on in-house testing on different KIR-expressing transfectants, clone S22024B does not interact with other KIR protein family members, including CD158e2.                                                                                                                                                                                                                                      |
| <b>RRID</b>                   | AB_3717162 (BioLegend Cat. No. 389509)<br>AB_3717162 (BioLegend Cat. No. 389510)                                                                                                                                                                                                                                                                                                                                                                                                  |

## Antigen Details

|                  |                                                       |
|------------------|-------------------------------------------------------|
| Structure        | 50 kD three Ig-like extracellular domain glycoprotein |
| Distribution     | Subset of NK cells, subset of T Cells                 |
| Function         | NK Cell regulation                                    |
| Ligand/Receptor  | MHC Class 1 molecules                                 |
| Cell Type        | Lymphocytes, NK cells, T cells                        |
| Biology Area     | Cell Biology, Immunology, Innate Immunity             |
| Molecular Family | CD Molecules                                          |

### Antigen References

1. Lanier LL, 2005. *Annu Rev Immunol.* 23:225-74.
2. Middleton D, et al. 2010. *Immunol.* 123:8.
3. Khakoo SI, et al. 2002. *J Exp Med.* 196:911-21.

Gene ID [3811](#)

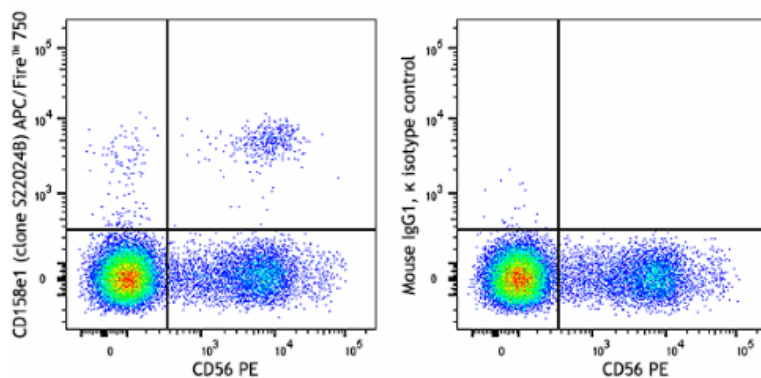
## Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

## Other Formats

Purified anti-human CD158e1 (KIR3DL1, NKB1), PE anti-human CD158e1 (KIR3DL1, NKB1) Antibody, APC/Fire™ 750 anti-human CD158e1 (KIR3DL1, NKB1) Antibody, APC anti-human CD158e1 (KIR3DL1, NKB1) Antibody, PE/Cyanine7 anti-human CD158e1 (KIR3DL1, NKB1) Antibody

## Product Data



Human peripheral blood lymphocytes were stained with anti-human CD56 (clone QA17A16) PE and anti-human CD158e1 (KIR3DL1, NKB1) (clone S22024B) APC/Fire™ 750 (left) or mouse IgG1, κ APC/Fire™ 750 isotype control (right).

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