

## PE/Cyanine7 anti-human CD158i (KIR2DS4) Antibody

<b>Catalog# / Size</b>	335109 / 25 tests 335110 / 100 tests
<b>Clone</b>	S22012A
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	NKAT8, Killer Cell Immunoglobulin-Like Receptor 2DS4
<b>Isotype</b>	Mouse IgG1, $\kappa$
<b>Description</b>	<p>CD158 molecules, also known as KIRs (killer cell immunoglobulin-like receptors), are a family of transmembrane proteins that are expressed on specific subsets of NK and T cells. KIRs are characterized as having either two (KIR2D) or three (KIR3D) Ig-like extracellular domains. Some KIRs with long cytoplasmic domains contain ITIMs and possess inhibitory functions, while others with short cytoplasmic region lack ITIMs and have activating functions. Fifteen polymorphic KIR genes have been identified in humans, contributing to the extensive diversity of KIR phenotypes observed in individuals.</p> <p>CD158i is an activating receptor with two Ig-like domains and a short cytoplasmic region. KIR2DS4 is reported to bind to certain HLA-C molecules and HLA-A*11.</p>

### Product Details

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<b>Verified Reactivity</b>	Human
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Immunogen</b>	KIR2DS4-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 PE/Cyanine7 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 $\mu$ L per million cells in 100 $\mu$ L staining volume or 5 $\mu$ L per 100 $\mu$ L of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
<b>Excitation Laser</b>	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
<b>Application Notes</b>	Based on in-house testing on different KIR-expressing transfectants, clone S22012A does not interact with other KIR protein family members.

### Antigen Details

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<b>Structure</b>	Two Ig-like extracellular domain glycoprotein
<b>Distribution</b>	Subset of NK cells, subset of T Cells

<b>Function</b>	NK cell regulation
<b>Ligand/Receptor</b>	HLA-C, HLA-A*11
<b>Cell Type</b>	Lymphocytes, NK cells, T cells
<b>Biology Area</b>	Cell Biology, Immunology, Innate Immunity
<b>Molecular Family</b>	CD Molecules

<b>Antigen References</b>	<ol style="list-style-type: none"> <li>1. Bottino C, <i>et al.</i> 1996. <i>Eur J Immunol.</i> 26:1816-24.</li> <li>2. Graef T, <i>et al.</i> 2009. <i>J Exp Med.</i> 206:2557-72.</li> <li>3. Campbell KS, <i>et al.</i> 1998. <i>Eur J Immunol.</i> 28:599-609.</li> </ol>
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**Gene ID** [3809](#)

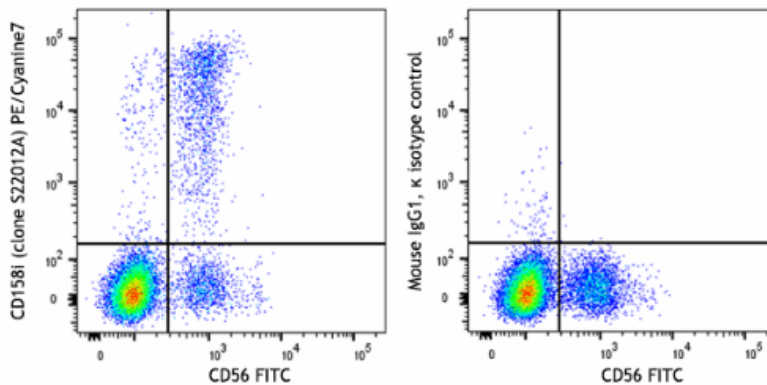
## Related Protocols

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

## Other Formats

Purified anti-human CD158i (KIR2DS4), APC anti-human CD158i (KIR2DS4), PE anti-human CD158i (KIR2DS4), PE/Cyanine7 anti-human CD158i (KIR2DS4)

## Product Data



Human peripheral blood lymphocytes were stained with anti-human CD56 (clone QA17A16) FITC and anti-human CD158i (KIR2DS4) (clone S22012A) PE/Cyanine7 (left) or mouse IgG1, κ PE/Cyanine7 isotype control (right).

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