

PE anti-human CD244 (2B4) Antibody

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|--------------------------|--|
| Catalog# / Size | 335205 / 25 tests 335206 / 100 tests |
| Clone | W20111B |
| Regulatory Status | RUO |
| Other Names | 2B4, SLAMF4 |
| Isotype | Rat IgG2a, κ |
| Description | CD244, known as 2B4, is a 38 kD type I transmembrane protein. It is a member of the CD2 subset of the immunoglobulin superfamily (IgSF) molecules. CD244 is expressed on NK cells, a subset of T cells (including most CD8 ⁺ T cells and γ/δ T cells), monocytes, basophils, and eosinophils. CD48 is the ligand of CD244. It has been reported that ligation of human CD244 results in enhanced NK cell cytotoxicity and cytokine production. Recent studies have shown that human CD244, like murine CD244, has both activating and inhibitory functions, which are dependent on the density of surface 2B4 expression, degree of ligation, and the level of the adaptor molecule SAP expression. |

Product Details

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|-------------------------------|---|
| Verified Reactivity | Human |
| Antibody Type | Monoclonal |
| Host Species | Rat |
| Immunogen | Transfected cells |
| Formulation | Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA) |
| Preparation | The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions. |
| Concentration | Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.) |
| Storage & Handling | The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze. |
| Application | FC - Quality tested |
| Recommended Usage | Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is 5 μ L per million cells in 100 μ L staining volume or 5 μ L per 100 μ L of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. |
| Excitation Laser | Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm) |
| RRID | AB_3662228 (BioLegend Cat. No. 335205) AB_3662228 (BioLegend Cat. No. 335206) |

Antigen Details

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|---------------------|---|
| Structure | 38 kD type I transmembrane protein, CD2 family member, Ig superfamily |
| Distribution | NK, T subset, monocytes, basophils, and eosinophils |
| Function | Activation and inhibition of NK cell function |

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|-------------------------|--|
| Ligand/Receptor | CD48 |
| Cell Type | Basophils, Eosinophils, Monocytes, NK cells, T cells |
| Biology Area | Immunology |
| Molecular Family | CD Molecules |

Antigen References

1. Lee KM, *et al.* 2003. *J Immunol.* 170:4881-5.
2. Chlewicki LK, *et al.* 2008. *J Immunol.* 180:8159-67.
3. Messmer B, *et al.* 2006. *J Immunol.* 176:4646-50.
4. Boles KS, *et al.* 2001. *Immunol Rev.* 181:234-49.

Gene ID [51744](#)

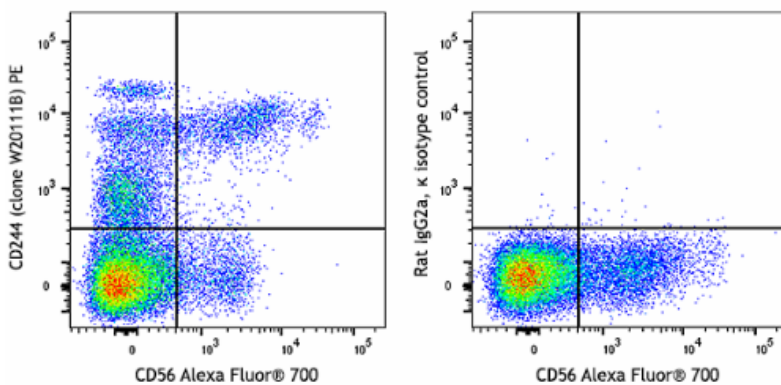
Related Protocols

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

Other Formats

PE anti-human CD244 (2B4)

Product Data



Human peripheral blood lymphocytes were stained with anti-human CD56 (clone HCD56) Alexa Fluor® 700 and anti-human CD244 (2B4) (clone W20111B) PE (left) or rat IgG2a, κ PE isotype control (right).

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