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Product Data Sheet

PE anti-human CD56 (NCAM) Recombinant

Catalog # / Size: 2594020 / 100 tests
2594015 / 25 tests

Clone: QA18A21

Isotype: Mouse IgG1, κ

Immunogen: Human TACI transfected cells

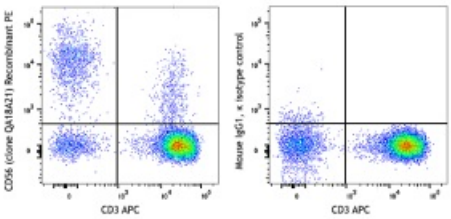
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).

Workshop Number: HCDM listed

Concentration: Lot-specific



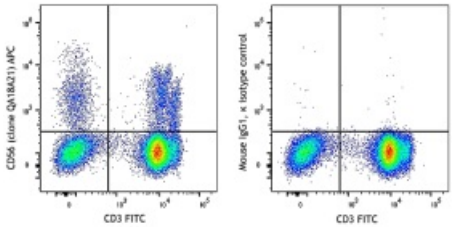
Human peripheral blood lymphocytes stained with CD3 APC and recombinant CD56 (clone QA18A21) PE (left) or Mouse IgG1, κ isotype control (right) PE.

Applications:

Applications: Flow Cytometry

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 µL per million cells in 100 µL staining volume or 5 µL per 100 µL of whole blood.

Application Notes: Additional reported applications include: western blot[5] and inducing of isotype switch signaling in B cells[1], suppressing Ab production through TACI signaling[2], inducing phosphorylation of PKA in B cells[3].



Human peripheral blood lymphocytes stained with CD16 FITC and recombinant CD56 (clone QA18A21) PE (left) or Mouse IgG1, κ isotype control (right) PE.

Application References:

1. Martinez-Gallo M, *et al.* 2013. *J Allergy Clin Immunol.* 131: 468-76. (Activation)
2. Sakurai D, *et al.* 2007. *Eur. J Immunol.* 37: 110-8. (Activation)
3. Sakurai D, *et al.* 2007. *Blood.* 109: 2961-7. (Activation)
4. He B, *et al.* 2010. *Nat. Immunol.* 11: 836-45. (FC)
5. Garcia-Carmona Y, *et al.* 2018. *Front Immunol.* 9: 2125. (WB)

Description: CD56 is a single transmembrane glycoprotein also known as NCAM (Neural Cell Adhesion Molecule), Leu-19, or NKH1. It is a member of the Ig superfamily. The 140 kD isoform is expressed on NK cells and NK-T cells. CD56 is also expressed in the brain (cerebellum and cortex) and at neuromuscular junctions. Certain large granular lymphocyte (LGL) leukemias, small-cell lung carcinomas, neuronal derived tumors, myelomas, and myeloid leukemias also express CD56. CD56 plays a role in homophilic and heterophilic adhesion via binding to itself or heparin sulfate.

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Antigen References:

1. Rosental B, *et al.* 2011. *J Immunol.* 187:5693. PubMed
2. Correia DV, *et al.* 2011. *Blood.* 118:992. PubMed
3. Schlecker E, *et al.* 2014. *Cancer Res.* 74:3429. PubMed
4. Snyder JM, *et al.* 2014. *PLoS One.* 9:e107257. PubMed
5. Siebert N, *et al.* 2014. *PLoS One.* 9:e107692. PubMed
6. Rider P, *et al.* 2015. *J Immunol.* 195:1705-12. PubMed
7. Davis ZB, *et al.* 2011. *J Vis Exp.* 49: 2668. PubMed
8. Robin JD, *et al.* 2015. *J Vis Exp.* 95: 52307. PubMed
9. Ames E, *et al.* 2015. *J Immunol.* 195: 4010-9. PubMed
10. Laroni A, *et al.* 2016. *J Autoimmun.* 72:8-18. PubMed
11. Pachnio A, *et al.* 2016. *PLoS Pathog.* 12:e1005832. PubMed
12. Wouters K, *et al.* 2017. *Sci Rep.* 7:42665. PubMed

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