

APC anti-human CD312 (EMR2) Antibody

Catalog# / Size	373117 / 25 tests 373118 / 100 tests
Clone	W15101A
Regulatory Status	RUO
Other Names	Epidermal growth factor module-containing mucin-like receptor 2, EMR2, AGRE2, ADGRE2
Isotype	Rat IgG2a, κ
Description	CD312, also known as Epidermal growth factor module-containing mucin-like receptor 2 (EMR2), is a 90 kD type I protein, a member of the Epidermal Growth Factor-seven transmembrane (EGF-TM7) family. Its extracellular region consists of five tandem EGF-like adhesion domains and a mucin-like stalk domain containing a G-protein proteolytic site, while the C-terminal region consists of a seven-pass transmembrane domain. CD312 is expressed by myeloid cells, dendritic cells, and activated lymphocytes. CD312 contributes to the interaction of macrophages, dendritic cells and activated T cells with B cells; it is involved in neutrophil chemotaxis, degranulation and adhesion, and release of inflammatory cytokines by macrophages. The ligands of CD312 are the glycosaminoglycans (GAG) chondroitin sulphate, and dermatan sulphate.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Recombinant protein fragment containing the first extracellular region of human EMR2 (24-540 a.a.).
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 APC 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	Red Laser (633 nm)
RRID	AB_3683400 (BioLegend Cat. No. 373117) AB_3683400 (BioLegend Cat. No. 373118)

Antigen Details

Structure	Member of the Epidermal Growth Factor-seven transmembrane (EGF-TM7) family, type I protein, its extracellular region consists of five tandem EGF-like adhesion domains and a mucin-like stalk domain containing a G-protein proteolytic site; the C-terminal re
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Distribution	Expressed by myeloid cells, dendritic cells, and activated lymphocytes.
Function	Involved in neutrophil chemotaxis, degranulation and adhesion. Promotes the release of inflammatory cytokines by macrophages. Contributes in the interaction of macrophages, dendritic cells and activated T cells with B cells.
Ligand/Receptor	Chondroitin sulphate, dermatan sulphate.
Cell Type	Dendritic cells, Lymphocytes, Neutrophils
Biology Area	Cell Adhesion, Cell Biology, Immunology
Molecular Family	Adhesion Molecules, CD Molecules
Antigen References	<ol style="list-style-type: none"> 1. Boyden SE, <i>et al.</i> 2016. <i>N. Engl. J. Med.</i> 374:656. 2. Lewis SM, <i>et al.</i> 2015. <i>Clin. Exp. Immunol.</i> 182:184. 3. Huang YS, <i>et al.</i> 2012. <i>Mol. Cell Biol.</i> 32:1408. 4. Rutkowski MJ, <i>et al.</i> 2011. <i>J. Neurooncol.</i> 105:165. 5. van Eijk M, <i>et al.</i> 2010. <i>Immunol. Lett.</i> 129:64.
Gene ID	30817

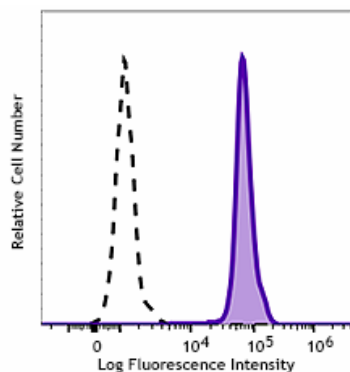
Related Protocols

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

Other Formats

Purified anti-human CD312 (EMR2), PE/Cyanine7 anti-human CD312 (EMR2), FITC anti-human CD312 (EMR2), PE/Dazzle™ 594 anti-human CD312 (EMR2), TotalSeq™-D1277 anti-human CD312, TotalSeq™-A1277 anti-human CD312 (EMR2), TotalSeq™-C1277 anti-human CD312 (EMR2), TotalSeq™-B1277 anti-human CD312 (EMR2), APC anti-human CD312 (EMR2)

Product Data



Human peripheral blood mononuclear cells were stained with anti-human CD312 (EMR2) (clone W15101A) APC (filled histogram) or rat IgG2a, κ APC isotype control (open histogram). Data shown was gated on monocytes.

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