

PE anti-human CD283 (TLR3) Antibody

Catalog# / Size	315009 / 25 tests 315010 / 100 tests
Clone	TLR-104
Regulatory Status	RUO
Other Names	Toll like receptor 3, TLR-3, CD283
Isotype	Mouse IgG2a, κ
Description	Toll-like receptor 3 (TLR3) is a 104 kD protein also known as CD283. It is expressed selectively on the cytoplasmic membrane and intracellularly in dendritic cells. TLR3 is also highly expressed in the placenta, pancreas, heart, liver, lung, and muscle. TLR3 is a pattern recognition receptor that participates in innate immune response to microbial pathogens. The ligands recognized by TLR3 are polyinosine-polycytidylic acid (Poly(I:C)) and dsRNA. TLR3 ligands induce NF-κB activation (via TRIF-linked RIP1/TLR3 interactions) and cytokine production. TLR3 has been shown to interact with a number of proteins including MYD88, TRAF6, TRIAD3, MAP3K7, and TAB2. This antibody is useful for flow cytometry and Western blotting.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Recombinant human Toll-like receptor 3 protein
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	ICFC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by intracellular 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.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Application Notes	Additional reported applications (for the relevant formats) include: Western blotting. The fluorochrome-labeled TLR-104 antibody is useful for intracellular immunofluorescent staining and flow cytometric analysis. For intracellular staining protocol, please visit www.biolegend.com and click on the support tab.
Application References	<ol style="list-style-type: none"> 1. Fiala M, <i>et al.</i> 2007. <i>P. Natl. Acad. Sci. USA</i> 10.1073/P. Natl. Acad. Sci. USA.0701267104. 2. Kong KF, <i>et al.</i> 2008. <i>J. Virol.</i> 82:7613. PubMed 3. Sadik CD, <i>et al.</i> 2009. <i>Nucleic Acids Res.</i> 37:5041. PubMed
Product Citations	<ol style="list-style-type: none"> 1. Lee SJ, <i>et al.</i> 2023. <i>Stem Cells Int.</i> 8815888:2023. PubMed 2. Shen P, <i>et al.</i> 2023. <i>Proc Natl Acad Sci U S A.</i> e2207993120:120. PubMed 3. Paris O, <i>et al.</i> 2022. <i>Front Immunol.</i> 13:975910. PubMed 4. Swartz AM, <i>et al.</i> 2022. <i>Curr Protoc.</i> 2:e410. PubMed

RRID

AB_2728268 (BioLegend Cat. No. 315009)
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Antigen Details

Structure	Toll-like receptor family member, type I membrane protein containing multiple leucine repeats and a interleukin-1 receptor like region in the extracellular domain, predicted molecular weight approximately 104 kD
Distribution	Selective expression in dendritic cells. Highly expressed in placenta, pancreas, also expressed in heart, liver, lung and muscle
Function	Pattern recognition receptor that participates in innate immune response to microbial pathogens. TLR3 ligands induce NF- κ B (via TRIF-linked RIP1/TLR3 interactions) and cytokine production. TLR3 stimulation results in the production of the cytokines
Interaction	MYD88, TRAF6, TRIAD3, MAP3K7, TAB2
Ligand/Receptor	Polyinosine-polycytidylic acid (Poly(I:C)), dsRNA
Cell Type	Dendritic cells
Biology Area	Cell Biology, Immunology, Innate Immunity, Neuroinflammation, Neuroscience, Neuroscience Cell Markers
Molecular Family	CD Molecules, Toll Like Receptors
Antigen References	1. Alexopoulou L, <i>et al.</i> 2001. <i>Nature</i> 413:732. 2. Doyle SE, <i>et al.</i> 2002. <i>Immunity</i> 17:251. 3. Meylan E, <i>et al.</i> 2004. <i>Nature Immun.</i> 5:503. 4. Muzio M, <i>et al.</i> 2000. <i>J. Immunol.</i> 164:5998. 5. Rock FL, <i>et al.</i> 1998. <i>Proc. Natl. Acad. Sci.</i> 95:588.
Gene ID	7098

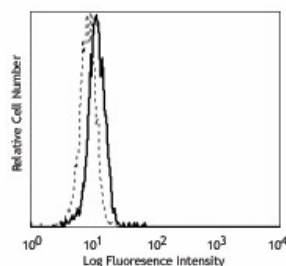
Related Protocols

- [Surface and Intracellular Cytokine Staining for Flow Cytometry - Video](#)
- [Intracellular Flow Cytometry Staining Protocol](#)

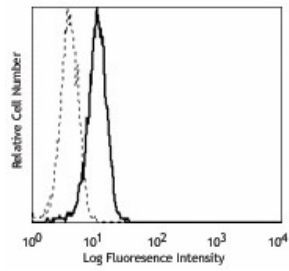
Other Formats

Purified anti-human CD283 (TLR3), Brilliant Violet 711™ anti-human CD283 (TLR3), PE anti-human CD283 (TLR3)

Product Data



Human TLR3 parental cells intracellularly stained with CD283 PE (solid line) or mouse IgG2a, κ PE isotype control (dotted line).



Human TLR3 transfected cells
intracellularly stained with CD283 PE (solid
line) or mouse IgG2a, κ PE isotype control
(dotted line).

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