

# CD283 (TLR3) Monoclonal Antibody (TLR3.7), PE, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human
Published Species	Pig, Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	TLR3.7
Conjugate	PE
Excitation/Emission Max	565/576 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_823150

Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Flow Cytometry (Flow)	1 µg/test	23 Publications

## Product Specific Information

**Description:** The TLR3.7 monoclonal antibody reacts with human Toll-like receptor 3 (TLR3). To date, at least twelve members of the Toll-like receptor family have been identified. This family of type I transmembrane proteins is characterized by an extracellular domain with leucine-rich repeats and a cytoplasmic domain with homology to the type I IL-1 receptor. In the innate immune response, TLRs recognize molecular patterns associated with microbial pathogens and induce antimicrobial activity. TLR3 recognizes double-stranded (ds)RNA, induces the activation of NF-kappaB through MyD88-dependent and -independent pathways, and the production of type I interferons (IFNs). TLR3.7 suppressed poly(I):poly(C)-mediated IFN-beta production by human fibroblasts naturally expressing TLR3 on their surface.

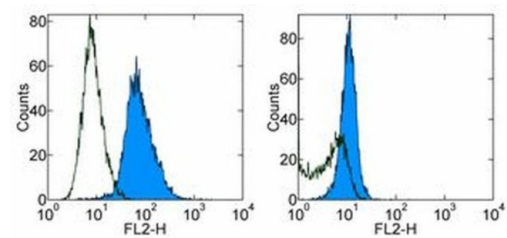
**Applications Reported:** The TLR3.7 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This TLR3.7 antibody has been tested by intracellular staining and flow cytometric analysis of A549 and MRC5 cell lines to detect the very low level of this antigen on the surface. This can be used at less than or equal to 1 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

**Product Images For CD283 (TLR3) Monoclonal Antibody (TLR3.7), PE, eBioscience™**



**CD283 (TLR3) Antibody (12-9039-82) in Flow**  
Staining of permeabilized (left) and non-permeabilized (right) A549 cells with 0.5 µg of Mouse IgG1 kappa Isotype Control PE (Product # 12-4714-81) (open histogram) or 0.5 µg of Anti-Human CD283 (TLR3) PE (filled histogram). Total cells were used for analysis.

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Western Blot (1)

Scientific reports	Year 2015
<b>A potential mode of action for Anakinra in patients with arthrofibrosis following total knee arthroplasty.</b>	Species Human
"Published figure using CD283 (TLR3) monoclonal antibody (Product # 12-9039-82) in Flow Cytometry"	
Authors: Dixon D,Coates J,del Carpio Pons A,Horabin J,Walker A,Abdul N,Kalson NS,Brewster NT,Weir DJ,Deehan DJ,Mann DA,Borthwick LA	

Immunohistochemistry (Paraffin) (1)

Human immunology	Year 2005
<b>Human endometrial epithelial cells cyclically express Toll-like receptor 3 (TLR3) and exhibit TLR3-dependent responses to dsRNA.</b>	Species Human
"Published figure using CD283 (TLR3) monoclonal antibody (Product # 12-9039-82) in Flow Cytometry"	
Authors: Jorgenson RL,Young SL,Lesmeister MJ,Lyddon TD,Misfeldt ML	

Flow Cytometry (23)

BMC research notes	Year 2020
<b>The expression profile of virus-recognizing toll-like receptors in natural killer cells of Cypriot multiple sclerosis patients.</b>	Species Human
"12-9039-82 was used in Flow Cytometry to study toll-like receptor (TLR) expression in the natural killer cells of patients with multiple sclerosis."	
Authors: Deeba E,Lambrianides A,Pantzaris M,Krashias G,Christodoulou C	

The Journal of international medical research	Year 2020
<b>Aging affects responsiveness of peripheral blood mononuclear cells to immunosuppression of periodontal ligament stem cells.</b>	Species Human
"Published figure using CD283 (TLR3) monoclonal antibody (Product # 12-9039-82) in Flow Cytometry"	
Authors: Li X,Zhang B,Wang H,Zhao X,Zhang Z,Ding G,Wei F	

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