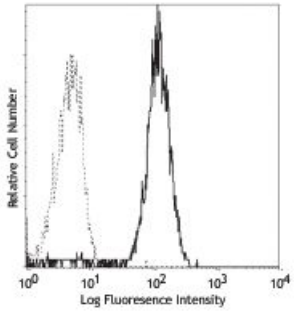
SONY

Product Data Sheet

Purified anti-human CD282 (TLR2)

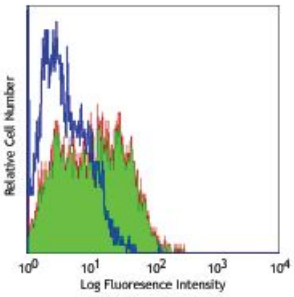
Catalog # / Size:	2148510 / 100 µg
Clone:	TL2.1
Isotype:	Mouse IgG2a, κ
Immunogen:	Human TLR2-transfected CHO cells
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Workshop Number:	HCDM listed
Concentration:	0.5



Human peripheral blood monocytes stained with TL2.1 FITC

Applications:

Applications:	Flow Cytometry, Immunohistochemistry, Other, Immunoprecipitation
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 ≤2.0 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.



TNF-α stimulated HUVEC cells stained with purified STA, followed by anti-mouse IgGs FITC

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Application Notes: The TL2.1 antibody is useful for blocking studies. It has been reported to block TLR2 agonist-induced cellular activation. Additional reported applications (for the relevant formats) include: inhibition of PGP activity and blocking of cytokine production[1,3,7], immunoprecipitation1, immunohistochemistry of 4% paraformaldehyde-fixed frozen sections2 and immunohistochemistry of HOPE-fixed (HEPES-glutamic acid buffer-mediated organic solvent protection effect) paraffin-embedded sections4 , and Western blotting2. The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 309709). For highly sensitive assays, we recommend Ultra-LEAF™ purified antibody (Cat. No. 309716) with a lower endotoxin limit than standard LEAF™ purified antibodies (Endotoxin <0.01 EU/microg).

Application References:

1. Flo T, *et al.* 2000. *J. Immunol.* 164:2064.
2. Faure E, *et al.* 2001. *J. Immunol.* 166:2018.
3. Sugawara S, *et al.* 2001. *Infect. Immun.* 69:4951.
4. Droemann D, *et al.* 2003. *Histochem. Cell Biol.* 119:103.
5. Chavakis E, *et al.* 2007. *Circ. Res.* 100:204.PubMed
6. Fiala M, *et al.* 2007. *Proc. Natl. Acad. Sci. USA* 10.1073/P. Natl. Acad. Sci. USA.0701267104.
7. Goo SY, *et al.* 2007. *J. Biol. Chem.* doi:10.1074/jbc.M701876200.PubMed
8. Weiss DJ,*et al.* 2008.*J. Leukoc. Biol.* 83:48. PubMed
9. Harris, KM., *et al.* 2011. *J. Leukoc Biol.* 90:727. PubMed.
10. Elass-Rocahrd E, *et al.* 2012. *J Biol Chem.* 287:34432. PubMed.

Description: Toll-like receptors are type I transmembrane signaling receptors which are critical for the innate host defense to pathogens. Toll-like receptor 2 (TLR2), known as CD282, has been identified as a receptor that is central to the innate immune system's response to lipoproteins of Gram-negative bacteria and Gram-positive bacteria, as well as a receptor for peptidoglycan and lipoteichoic acid and other bacterial cell membrane products.

Antigen References:

1. Lien E, *et al.* 1999. *J. Biol. Chem.* 274:33419.
2. Lien E, *et al.* 2001. *J. Biol. Chem.* 276:1873.
3. Sabroe I, *et al.* 2002. *J. Immunol.* 168:4701

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