

Product Data Sheet

LEAF™ Purified anti-human CD282 (TLR2)

Catalog # / Size: 309709 / 100 µg
309710 / 500 µg

Clone: TL2.1

Isotype: Mouse IgG2a, κ

Immunogen: Human TLR2-transfected CHO cells

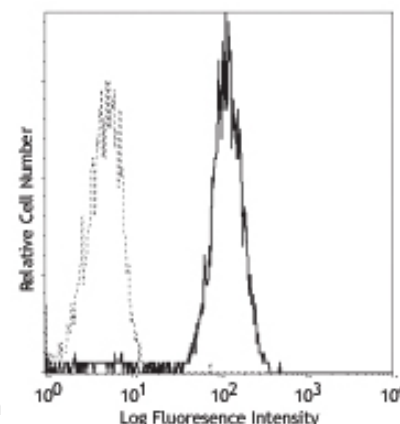
Reactivity: Human

Preparation: The LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.

Formulation: 0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.1 EU/µg of the protein (<0.01 ng/µg of the protein) as determined by the LAL test.

Concentration: 1.0 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. This LEAF™ solution contains no preservative; handle under aseptic conditions.



Human peripheral blood monocytes
stained with TL2.1 FITC

Applications:

Applications: FC - *Quality tested*
IP, Block, IHC, WB - *Reported in the literature*

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤2.0 µg per million cells in 100 µl volume or 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

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/µg).

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* 104:1073/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.

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

Related Products:

LEAF™ Purified anti-human CD14
LEAF™ Purified Mouse IgG2a, κ Isotype Ctrl

Cell Staining Buffer
RBC Lysis Buffer (10X)

LEAF™ Purified anti-human CD284 (TLR4)
LEAF™ Purified anti-human CD180 (RP105)

Clone
M5E2
MOPC-173

HTA125
MHR73-11

Application

Block, FC, IF, IHC, CyTOF®
FC, WB, IP, ICFC, ICC, IF,
IHC, FA
FC, ICC, ICFC
FC, ICFC
FC, Block, IHC, IF
Activ, FC, ICFC, IHC, IP



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