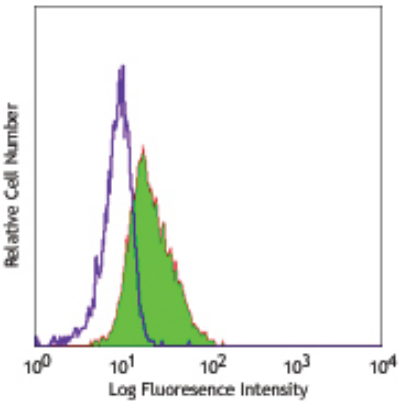
BioLegend
The path to legendary discovery™

Product Data Sheet

LEAF™ Purified anti-human CD354 (TREM-1)

Catalog # / Size: 314907 / 100 µg
Clone: TREM-26
Isotype: Mouse IgG1, κ
Immunogen: Recombinant human TREM-1
Reactivity: Human, **Cross-Reactivity:** Dog (Canine)
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 granulocytes stained with LEAF™ purified TREM-26, followed by anti-mouse IgG FITC

Applications:

Applications: FC - *Quality tested*
Activ, WB - *Validated in house*

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 ≤0.5 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: **ELISA Detection:** The biotinylated TREM-26 antibody is useful as a detection antibody for a TREM-1 specific sandwich ELISA, when used in conjunction with the TREM-37 antibody (Cat. No. 316102) as the capture antibody. The TREM-26 antibody is useful for flow cytometry and activation of monocytes and granulocytes. The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 314907).

Application References:
1. Li J, *et al.* 2011. *Dev. Comp. Immunol.* epub.

Description: TREM-1 is a 30 kD glycoprotein also known as triggering receptor expressed on myeloid cells 1, and triggering receptor expressed on monocytes 1. It is a Type I membrane protein that contains an immunoglobulin-like V-type domain. Alternatively spliced protein variant may be secreted. TREM-1 is highly expressed on peripheral blood myeloid cells (particularly mature monocytes and granulocytes); TREM-1 expression can be further upregulated by bacteria, fungi and lipopolysaccharide. TREM-1 has been shown to interact with the adaptor protein DAP12 to stimulate neutrophil and monocyte-mediated inflammatory responses through the triggering and release of pro-inflammatory cytokines and chemokines. TREM-1 is thought to amplify inflammatory responses to fungal and bacterial infections and potentiate septic shock. This antibody has been shown to be useful for flow cytometry and activation of monocytes and granulocytes.

Antigen References:
1. Bouchon A, *et al.* 2001. *Nature* 410:1103.
2. Bouchon A, *et al.* 2000. *J. Immunol.* 164:4991.
3. Gingras MC, *et al.* 2002. *Mol. Immunol.* 38:817.

Related Products:

Product	Clone	Application
LEAF™ Purified Mouse IgG1, κ Isotype Ctrl	MOPC-21	FC, ICFC, WB, IP, ICC, IF, FA

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