

PE anti-human CD354 (TREM-1) Antibody

Catalog# / Size	314906 / 100 tests
Clone	TREM-26
Regulatory Status	RUO
Workshop	HCDM listed
Other Names	Triggering receptor expressed on myeloid cells 1, triggering receptor expressed on monocytes 1
Isotype	Mouse IgG1, κ
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.

Product Details

Verified Reactivity	Human, African Green, Baboon, Cynomolgus, Rhesus
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Recombinant human TREM-1
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, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.)
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	FC - Quality tested
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 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	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 Ultra-LEAF™ purified antibody (Endotoxin < 0.01 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 314913 & 314914).
Application References	1. Li J, <i>et al.</i> 2011. <i>Dev. Comp. Immunol.</i> epub.
(PubMed link indicates BioLegend citation)	

Product Citations
1. How C, *et al.* 2011. Am J Emerg Med. 29:626. [PubMed](#)
2. Schröder M, *et al.* 2016. PLoS One. 11: 0157387. [PubMed](#)

RRID AB_389355 (BioLegend Cat. No. 314906)

Antigen Details

Structure Type I membrane protein, 30 kD, contains immunoglobulin-like V-type domain. Alternatively spliced variant may be secreted.

Distribution Highly expressed in adult liver, lung, and spleen, lower expression in lymph node, placenta, spinal cord, and heart. High expression in peripheral blood myeloid cells.

Function Stimulates neutrophil and monocyte-mediated inflammatory responses through the triggering and release of pro-inflammatory cytokines and chemokines and the upregulation of surface activation markers. Amplifies inflammatory responses to fungal and bacterial

Interaction DAP12

Modification Glycosylated

Cell Type Neutrophils

Biology Area Cell Biology, Immunology, Innate Immunity, Neuroinflammation, Neuroscience

Molecular Family CD Molecules, Cytokines/Chemokines

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.

Regulation Upregulated by bacteria, fungi, and LPS

Gene ID [54210](#)

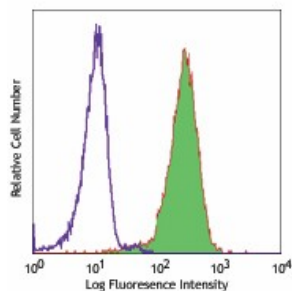
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Ultra-LEAF™ Purified anti-human CD354 (TREM-1), TotalSeq™-A0586 anti-human CD354 (TREM-1), TotalSeq™-C0586 anti-human CD354 (TREM-1) Antibody, Purified anti-human CD354 (TREM-1), Biotin anti-human CD354 (TREM-1), PE anti-human CD354 (TREM-1), APC anti-human CD354 (TREM-1)

Product Data



Human peripheral blood granulocytes stained with TREM-26 PE

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