

Human TREM-1 Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF1278

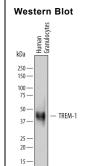
DESCRIPTION					
Species Reactivity	ty Human				
Specificity	Detects human TREM-1 in ELISAs and Western blots. In ELISAs, less than 0.2% cross-reactivity with recombinant mouse (rm) TREM-1 and rmTREM-2b is observed.				
Source	Polyclonal Goat IgG				
Purification	Antigen Affinity-purified				
Immunogen	S. frugiperda insect ovarian cell line Sf 21-derived recombinant human TREM-1 Met1-Arg200 Accession # Q9NP99				
Endotoxin Level	<0.10 EU per 1 μg of the antibody by the LAL method.				
Formulation	rmulation Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.				

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample See Below		
Western Blot	1 μg/mL			
Flow Cytometry	2.5 µg/10 ⁶ cells	Human whole blood monocytes and neutrophils		
Human TREM-1 Sandwich Immunoassay		Reagent		
ELISA Capture	0.2-0.8 μg/mL	Human TREM-1 Antibody (Catalog # AF1278)		
ELISA Detection	0.1-0.4 µg/mL	Human TREM-1 Biotinylated Antibody (Catalog # BAF1278)		
Standard		Recombinant Human TREM-1 Fc Chimera (Catalog # 1278-TR)		
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.			
Agonist Activity	Measured by its ability to stimulate TNF-α secretion by human peripheral blood mononuclear cells. Bouchon, A. et al. (2001) Nature 410 :1103 and Bouchon, A. et al. (2000) J. Immunology 164 :4991. The ED ₅₀ for this effect is typically 2 - 6 μg/mL.			





Detection of Human TREM-1 by Western Blot. Western blot shows lysates of human granulocytes. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human TREM-1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1278) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for TREM-1 at approximately 40 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAG						
	DD	EDAL	2Λ TIO 1	и имп	STOP	ACE

 Reconstitution
 Reconstitute at 0.2 mg/mL in sterile PBS.

 Shipping
 The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

 *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

Rev. 2/6/2018 Page 1 of 2





Human TREM-1 Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF1278

BACKGROUND

TREM-1 (Triggering Receptor Expressed on Myeloid cells) is a type I transmembrane protein having a single Ig-like domain. It associates with the adapter protein, DAP12, to deliver an activating signal. Several other TREM family members have been reported that are structurally similar but share less than 30% amino acid identity. TREM-1 is expressed on blood neutrophils and a subset of monocytes, and expression is up-regulated by bacterial LPS. The natural ligand for TREM-1 has not been identified. However, engagement of TREM-1 with an agonist monoclonal antibody leads to expression of IL-8, MCP-1, and TNF-α, suggesting that this receptor plays an important role in inflammatory responses. TREM-1 is expressed at high levels on neutrophils of patients with microbial sepsis and in mice with LPS-induced shock. Blockade of TREM-1 with a TREM-1/Fc fusion protein protected mice against LPS-induced shock. Human and mouse TREM-1 share approximately 42% amino acid sequence homology (1-3).

References:

- 1. Bouchon, A. (2000) J. Immunol. 164:4991.
- 2. Bouchon, A. (2001) Nature 410:1103.
- 3. Nathan, C. and A. Ding (2001) Nature Med. 7:530.

Rev. 2/6/2018 Page 2 of 2

