

Mouse TREM-1 Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF1187

DESCRIPTION			
Species Reactivity	Mouse		
Specificity	Detects mouse TREM-1 in ELISAs and Western (rh) TREM-1 is observed.	ern blots. In sandwich immunoassays, less than 0.2% cross-reactivity with recombinant human	
Source	Polyclonal Goat IgG		
Purification	Antigen Affinity-purified		
Immunogen	Mouse myeloma cell line NS0-derived recomb Ala21-Ser202 Accession # Q9JKE2	oinant mouse TREM-1	
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method.		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.		
APPLICATIONS			
Please Note: Optimal dilution	ons should be determined by each laboratory for each applic	ation. General Protocols are available in the Technical Information section on our website.	
	Recommended Concentration	Sample	
Western Blot	0.1 μg/mL	Recombinant Mouse TREM-1 Fc Chimera (Catalog # 1187-TR)	
Flow Cytometry	2.5 µg/10 ⁶ cells	Mouse blood GR-1+ granulocytes	
Immunocytochemisti	ry 5-15 μg/mL	Immersion fixed mouse splenocytes	

ELISA Capture	0.2-0.8 μg/mL	Mouse TREM-1 Antibody (Catalog # AF1187)
ELISA Detection	0.1-0.4 μg/mL	Mouse TREM-1 Biotinylated Antibody (Catalog # BAF1187)
Standard		Recombinant Mouse TREM-1 Fc Chimera (Catalog # 1187-TR)
Agonist Activity Measured by its ability to stimulate TNF-α secretion by P388D1 mouse lymphoma cells. Bouch		lity to stimulate TNF-α secretion by P388D1 mouse lymphoma cells. Bouchon, A. et al. (2001)
	Nature, 410 :1103 and Bouchon, A. <i>et al.</i> (2000) J. Immunology, 164 :4991.	
	The FD for this ef	fect is typically 1-3 ug/ml

PREPARATION AND STORAGE		
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.	
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.

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. Engagement of TREM-1 with a 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.

References:

- 1. Bouchon, A. (2000) J. Immunol. 164:4991.
- 2. Bouchon, A. (2001) Nature 410:1103.

Mouse TREM-1 Sandwich Immunoassay

3. Nathan, C. and A. Ding (2001) Nature Med. 7:530.

