R SYSTEMS a **biotechne** brand

Human TREM-1 Alexa Fluor[®] 594-conjugated Antibody

Monoclonal Mouse IgG2A Clone # 888111 Catalog Number: FAB12781T 100 µg

	luman		
ficity [Detects human TREM-1 in direct ELISAs.		
ce N	Monoclonal Mouse IgG _{2A} Clone # 888111		
cation F	Protein A or G purified from hybridoma culture supernatant		
A	E. <i>coli</i> -derived recombinant human TREM-1 Ja21-Asn150 Accession # Q9NP99		
E	lexa Fluor 594 ixcitation Wavelength: 590 nm imission Wavelength: 617 nm		
E	ixcitation Wavelength: 590 nm		

*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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	
Flow Cytometry	0.25-1 µg/10 ⁶ cells	HEK293 Human Cell Line Transfected with Human TREM-1 and eGFP	

PREPARATION AND STORAGE		
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.	
Stability & Storage	Protect from light. Do not freeze.	
	 12 months from date of receipt, 2 to 8 °C as supplied. 	

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.

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