RD SYSTEMS a biotechne brand

Mouse TREM-1 Biotinylated Antibody

Monoclonal Rat IgG_{2A} Clone # 174031 Catalog Number: BAM1187

DESCRIPTION

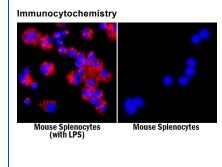
Species Reactivity	Mouse		
Specificity	Detects mouse TREM-1 in direct ELISAs and Western blots.		
Source	Monoclonal Rat IgG _{2A} Clone # 174031		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse TREM-1 Met1-Ser202 Accession # Q9JKE2		
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 BSA as a carrier protein. See Certificate of Analysis for details.		

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
Western Blot	1 µg/mL	Recombinant Mouse TREM-1 Fc Chimera (Catalog # 1187-TR)
Immunocytochemistry	8-25 μg/mL	See Below

DATA



TREM-1 in Mouse Splenocytes. TREM-1 was detected in immersion fixed mouse splenocytes treated with LPS (left panel; positive staining) and untreated (right panel; negative staining) using Rat Anti-Mouse TREM-1 Biotinylated Monoclonal Antibody (Catalog # BAM1187) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights[™] 557conjugated Anti-Rat IgG Secondary Antibody (red; Catalog # NL013) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for Fluorescent ICC Staining of Non-adherent Cells.

PREPARATION AND STORAGE		
Reconstitution	Reconstitute at 0.5 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.
- 3. Nathan, C. and A. Ding (2001) Nature Med. 7:530.

Rev. 9/30/2019 Page 1 of 1



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