

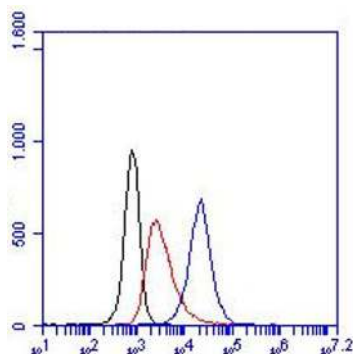
**CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET**

<b>Product name</b>	TREM-2, Mouse, clone 6E9		
<b>Catalog number</b>	HM1129-20UG		
<b>Lot number</b>	-	<b>Expiry date</b>	-
<b>Volume</b>	200 µl	<b>Amount</b>	20 µg
<b>Formulation</b>	0.2 µm filtered in PBS+0.1%BSA+0.02%NaN3	<b>Concentration</b>	100 µg/ml
<b>Host Species</b>	Rat IgG2b	<b>Conjugate</b>	None
<b>Endotoxin</b>	N.A.	<b>Purification</b>	Protein G
<b>Storage</b>	4°C		

**Application notes**

	IHC-F	IHC-P	IF	FC	FS	IA	IP	W
Reference #				1		1	1	
Yes				•		•	•	
No								
N.D.	•	•	•		•			•

N.D.= Not Determined; IHC = Immuno histochemistry; F = Frozen sections; P = Paraffin sections; IF = Immuno Fluorescence; FC = Flow Cytometry; FS = Functional Studies; IA = Immuno Assays; IP = Immuno Precipitation; W = Western blot



FC: Flow cytometry with RAW cells. The black line represents cell only, the red line the isotype control and the blue line HM1129 (1 µg/250000 cells).

Dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:50.

- FC: The typical starting working dilution is 2 µg/250000 cells.

**General Information**
**Description**

The monoclonal antibody 6E9 recognizes mouse membrane-bound as well as soluble triggering receptor expressed on myeloid cells-2 (TREM-2). TREM-2 is a 26 kDa transmembrane glycoprotein that consists of a single extracellular immunoglobulin-like domain, a transmembrane region with a charged lysine residue and a short cytoplasmic tail. It associates with DNAX-activation protein 12 (DAP12) for signaling and function. TREM-2 is expressed on immature monocyte-derived dendritic cells. After activation by microbial products or tumor necrosis factor (TNF) and TNF-related proteins, dendritic cells downregulate the expression of TREM-2. TREM-2 is also expressed by osteoclasts and microglia, where it is involved in bone modeling and brain function, respectively. Another role of TREM-2 might be promoting the removal of apoptotic cells, organic matrix and macromolecules by microglia. Defects in TREM-2 are a cause of polycystic lipomembranous osteodysplasia with sclerosing leukoencephalopathy (PLOS), also called presenile dementia with bone cysts or Nasu-Hakola disease (NHD). TREM-2, like TREM-1, can be cleaved on the membrane to release a soluble form of TREM-2 (sTREM-2). Elevated levels of sTREM-2 in CSF of multiple sclerosis patients have been detected. This elevated level may inhibit the anti-inflammatory function of the membrane-bound receptor suggesting sTREM-2 to be a possible target for future therapies.

**Immunogen**

Mouse recombinant TREM-2 protein

<b>Aliases</b>	Triggering receptor expressed on myeloid cells 2, Triggering receptor expressed on monocytes 2, TREM-2
<b>Gene</b>	Gene name: Trem2, Trem2a, Trem2b, Trem2c
<b>References</b>	1. Koga, T et al; Costimulatory signals mediated by the ITAM motif cooperate with RANKL for bone homeostasis. Nature 2004, 428: 758
<b>Storage&amp;stability</b>	Product should be stored at 4°C. Under recommended storage conditions, product is stable for at least one year.
<b>Precautions</b>	For research use only. Not for use in or on humans or animals or for diagnostics. It is the responsibility of the user to comply with all local/state and federal rules in the use of this product. Hycult Biotech is not responsible for any patent infringements that might result from the use or derivation of this product.

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We hereby certify that the above-stated information is correct and that this product has been successfully tested by the Quality Control Department. This product was released for sale according to the existing specifications. This document has been produced electronically and is valid without a signature.

Approved by Manager of QC  
Brenda Teunissen

Date  
13/11/2020

Do you have any questions or comments regarding this product? Please contact us via [support@hycultbiotech.com](mailto:support@hycultbiotech.com).