

CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET

Product name	TREM-1, Human, clone 6B1	Expiry date	-
Catalog number	HM2252		
Lot number	-	Amount	100 µg
Volume	1 ml	Concentration	100 µg/ml
Formulation	0.2 µm filtered in PBS+0.1%BSA	Conjugate	None
Host Species	Mouse IgG1	Purification	Protein G
Endotoxin	N.A.		
Storage	4°C		

Application notes

	IHC-F	IHC-P	IF	FC	FS*	IA	IP	W
Reference #				2	2	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

*If you are interested to use this antibody for functional studies, please contact us for bulk and low endotoxin opportunities.

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. For functional studies, in vitro dilutions have to be optimized in user's experimental setting.

General Information

Description	The monoclonal antibody 6B1 recognizes human triggering receptor expressed on myeloid cells 1 (TREM-1). TREM-1 is a transmembrane glycoprotein belonging to a family related to the natural killer cell receptors. TREM-1 is an important activating receptor, of 26 kDa, involved in the innate inflammatory response and in sepsis. TREM-1 is expressed at low levels in the early development of the hematopoietic system and in the promonocytic stage and at high levels on neutrophil granulocytes (PMN), monocytes, and macrophage subsets. The expression of TREM-1 is upregulated by microbial products, that is, by toll-like receptor ligands such as lipoteichoic acid (LTA) of Gram-positive or lipopolysaccharide (LPS) of Gram-negative bacteria. Ligation of TREM-1 is synergistic with TLR agonists on the activation of receptor bearing cells. Platelets express a natural ligand for TREM-1. Receptor ligation activates the full repertoire of effector functions. TREM-1 is also produced in a soluble form (sTREM-1) of 17 kDa which is released in humans after endotoxin exposition or in patients suffering from severe pneumonia or sepsis. sTREM-1 can be measured in biological fluids and may be useful as a diagnostic tool. The monoclonal antibody 6B1 recognizes both membrane bound and soluble TREM-1. Also, the monoclonal antibody 6B1 neutralizes the interaction between TREM-1 and its ligand.
Immunogen	Recombinant TREM-1 - IgG1 fusion protein.
Aliases	TREM-1, triggering receptor expressed on myeloid cells 1, TREM1.
References	<ol style="list-style-type: none"> 1. Radsak, M et al; Soluble triggering receptor expressed on myeloid cells 1 is released in patients with stable chronic obstructive pulmonary disease. Clin Dev Immunol 2007, 2007: 52040 2. Haselmayer, P et al; TREM-1 ligand expression on platelets enhances neutrophil activation. Blood 2007, 110: 1029 3. Stennicke, V et al; Antibodies that bind and block triggering receptor expressed on myeloid cells (TREM-1). US Patent 2013: US2013309239
Storage&stability	Product should be stored at 4°C. Under recommended storage conditions, product is stable for at least one year.

Precautions

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.

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
Robbert Zwinkels

Date
19/07/2018

Do you have any questions or comments regarding this product? Please contact us via support@hycultbiotech.com.