

Datasheet for ABIN3044450
anti-TREM1 antibody (AA 74-90)

3 Images

1 Publication

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Overview

Quantity:	100 µg
Target:	TREM1
Binding Specificity:	AA 74-90
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Triggering receptor expressed on myeloid cells 1(TREM1) detection. Tested with WB, IHC-P, IHC-F in Mouse.
Immunogen:	A synthetic peptide corresponding to a sequence in the middle of mouse TREM1(74-90aa FTRPSEVHMGKFTLKHD).
Sequence:	FTRPSEVHMG KFTLKHD
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Triggering receptor expressed on myeloid cells 1(TREM1) detection. Tested with WB, IHC-P, IHC-F in Mouse. Gene Name: triggering receptor expressed on myeloid cells 1 Protein Name: Triggering receptor expressed on myeloid cells 1(TREM-1)

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: TREM1

Alternative Name: TREM1 ([TREM1 Products](#))

Background: Trem1, Triggering receptor expressed on myeloid cells-1, is encoded by Trem1 gene. The expression of Trem1 is in monocytes and neutrophils but not in lymphocytes, dendritic cells, or other cell types. Trem1 is a 30-kD glycoprotein that is reduced to 26 kD by deglycosylation, in agreement with the predicted molecular mass. The Trem1 gene which contains 4 exons maps to chromosome 6p21.1, within a TREM gene cluster and the mouse Trem1 gene maps to chromosome 17 in a region that shows homology of synteny to human chromosome 6. The expression of Trem1 is upregulated by stimulation with lipopolysaccharide(LPS), gram-negative bacteria, and fungi. Cross-linking of Trem1 on neutrophils induces interleukin-8(IL8) and myeloperoxidase secretion, while cross-linking on monocytes induces not only secretion of IL8 but also of monocyte chemotactic protein-1(MCP1, or SCYA2) and tumor necrosis factor(TNF), MCP1 and TNF secretion could be further upregulated by LPS-mediated priming. Trem1 engagement also induces upregulation of adhesion molecules(e.g., ITGB1) and costimulatory molecules(e.g., CD40). Trem1 is associated with DAP12(TYROBP), a molecule frequently associated with activating receptors.

Synonyms: CD354 antibody|OTTMUSP00000018206 antibody|TREM 1 antibody|TREM-1 antibody|TREM1 antibody|TREM1_HUMAN antibody|Triggering receptor expressed on monocytes 1 antibody|Triggering receptor expressed on myeloid cells 1 antibody|Triggering receptor TREM 1 antibody|Triggering receptor TREM1 antibody

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Mouse
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Mouse, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.
IHC-F: Concentration: 0.5-1 µg/mL, Tested Species: Mouse
Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested.
Optimal dilutions should be determined by end users.

Application Details

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P) and IHC(F).

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Thimerosal, 0.05 mg Sodium azide.

Preservative: Thimerosal (Merthiolate), Sodium azide

Precaution of Use: This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

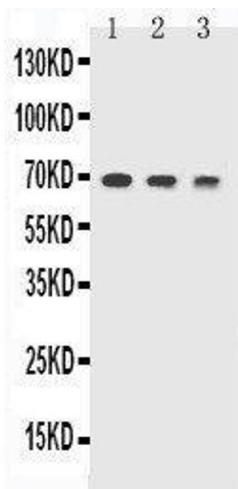
Storage: 4 °C/-20 °C

Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Expiry Date: 12 months

Publications

Product cited in: Whiteland, Nicholls, Shimeld, Easty, Williams, Hill: "Immunohistochemical detection of T-cell subsets and other leukocytes in paraffin-embedded rat and mouse tissues with monoclonal antibodies." in: **The journal of histochemistry and cytochemistry : official journal of the Histochemistry Society**, Vol. 43, Issue 3, pp. 313-20, (1995) ([PubMed](#)).



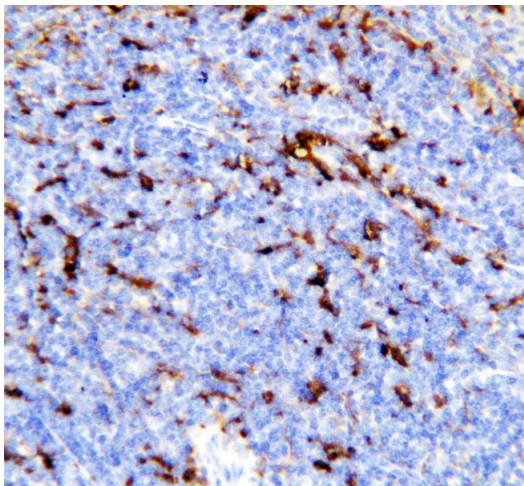
Western Blotting

Image 1. Anti-TREM1 antibody, Western blotting Lane 1: Recombinant Mouse TREM1 Protein 10ng Lane 2: Recombinant Mouse TREM1 Protein 5ng Lane 3: Recombinant Mouse TREM1 Protein 2.5ng



Western Blotting

Image 2. Anti-TREM1 antibody, Western blotting Lane 1: Recombinant Mouse TREM1 Protein 1ng



Immunohistochemistry

Image 3. Anti-TREM1 antibody, IHC(P) IHC(P): Mouse Spleen Tissue