

## Mouse anti-Human TREM2 Monoclonal Antibody | anti-TREM2 antibody

Human TREM2 antibody

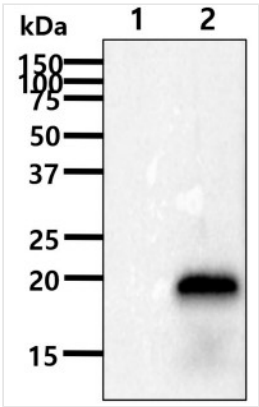
| CATALOG # | HOST  | REACTIVITY | APPLICATIONS                                                               |
|-----------|-------|------------|----------------------------------------------------------------------------|
| AAA332953 | Mouse | Human      | ELISA, Western Blot, Immunocytochemistry, Flow Cytometry, Functional Assay |

### PRODUCT SYNONYMS

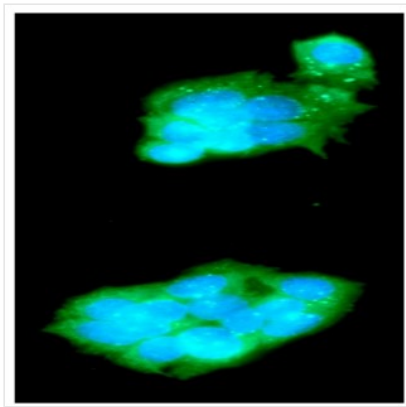
TREM2; Monoclonal Antibody; Human TREM2 antibody; Triggering receptor expressed on myeloid cells 2 isoform 1; Triggering receptor expressed on myeloid cells 2; Triggering receptor expressed on myeloid cells 2a; TREM-2; Trem2a; Trem2b; Trem2c; anti-TREM2 antibody

### PRODUCT SPECIFICATIONS

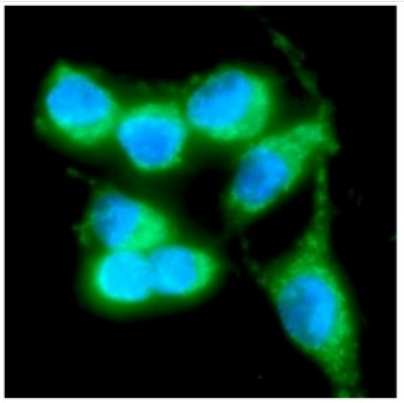
|                                                 |                                                                                                                                                                                                                                        |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Mouse                                                                                                                                                                                                                                  |
| Reactivity                                      | Human                                                                                                                                                                                                                                  |
| Clonality                                       | Monoclonal                                                                                                                                                                                                                             |
| Isotype                                         | IgG1 kappa                                                                                                                                                                                                                             |
| Clone Number                                    | AT1E7                                                                                                                                                                                                                                  |
| Purity/Purification                             | By protein-A affinity chromatography                                                                                                                                                                                                   |
| Form/Format                                     | Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol                                                                                                                                                    |
| Concentration                                   | 1mg/ml (determined by BCA assay) (varies by lot)                                                                                                                                                                                       |
| Applicable Applications for anti-TREM2 antibody | ELISA, WB (Western Blot), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry)                                                                                                                                                         |
| Application Notes                               | The antibody has been tested by ELISA, Western blot, ICC/IF and FACS analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results. |
| Immunogen                                       | Recombinant human TREM2 (19-161aa) purified from E. coli                                                                                                                                                                               |
| Preparation and Storage                         | Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.                                                                                          |



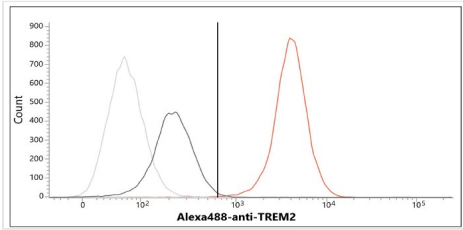
**Western Blot (WB)**  
The cell lysates(40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human TREM2 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.Lane 1 : 293T cell lysateLane 2 : TREM2 19-161aa Transfected 293T cell lysate



**Immunocytochemistry (ICC)/Immunofluorescence (IF)**  
ICC/IF analysis of TREM2 in HepG2 cells. The cell was stained (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).



**Immunocytochemistry (ICC)/Immunofluorescence (IF)**  
ICC/IF analysis of TREM2 in Raw264.7 cells. The cell was stained (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).



**Flow Cytometry (FC/FACS)**  
Flow cytometry analysis of TREM2 in Hep3B cells. The cell was stained at 2-5ug for 1x10^6cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-TREM2 antibody | The triggering receptor expressed on myeloid cells-2 (TREM2) is a membrane protein that interacts with the TYROBP protein. The TREM2 and TYROBP proteins form a complex that transmits chemical signals to activate the cell. This complex is involved in the growth and development of several types of immune cells, particularly dendritic cells and activates these cells, triggering an inflammatory response to injury or disease. And the TYROBP-TREM2 complex also activates cells in the skeletal system and in the brain and spinal cord (central nervous system). |
| References                                          | N.Diaye EN, et al., (2009) J Cell Biol. 184(2):215-23.<br>Piccio L, et al., (2008) Brain. 131(11):3081-91.                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

NCBI AND UNIPROT INFORMATION

|                           |                        |
|---------------------------|------------------------|
| NCBI GI #                 | 9507203                |
| NCBI Accession #          | NP_061838              |
| NCBI GenBank Nucleotide # | NM_018965.3            |
| UniProt Accession #       | Q9NZC2; Q8N5H8; Q8WYN6 |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

