

## TREM2 (Triggering Receptor Expressed On Myeloid Cells 2) Antibody

Mouse Monoclonal Antibody [Clone TREM2/7210]

Catalog No	Format	Size
54209-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
54209-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
54209-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

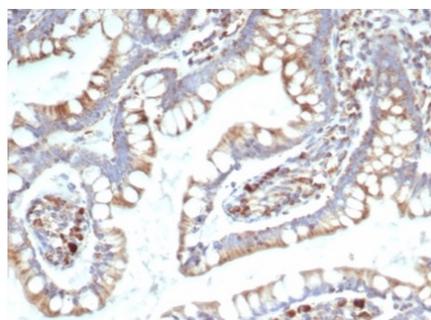
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

### Product Details

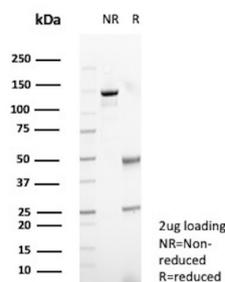
<b>Clone</b>	TREM2/7210
<b>Gene Name</b>	TREM2
<b>Immunogen</b>	Recombinant fragment (around aa1-200) of human TREM2 protein (exact sequence is proprietary)
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype / Light Chain</b>	IgG2b / Kappa
<b>Mol. Weight of Antigen</b>	40kDa (glycosylated); 26kDa (deglycosylated)
<b>Cellular Localization</b>	Cell membrane, Secreted
<b>Species Reactivity</b>	Human
<b>Positive Control</b>	Human small intestine, ovary or placenta.

\*Optimal dilution for a specific application should be determined.

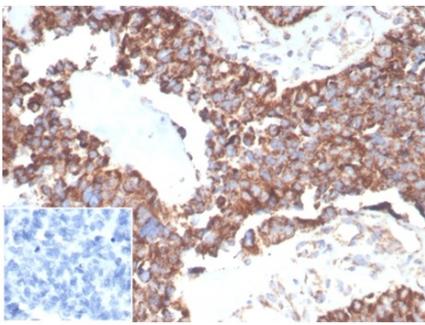
### Product Images for TREM2 (Triggering Receptor Expressed On Myeloid Cells 2) Antibody



Formalin-fixed, paraffin-embedded human small intestine stained with TREM2 Mouse Monoclonal Antibody (TREM2/7210). HIER: Tris/EDTA, pH9.0, 45min. 2 °: HRP-polymer, 30min. DAB, 5min.



SDS-PAGE Analysis of Purified Triggering receptor expressed on myeloid cells 2 Mouse Monoclonal Antibody (TREM2/7210). Confirmation of Purity and Integrity of Antibody.



Formalin-fixed, paraffin-embedded human ovarian carcinoma stained with TREM2 Mouse Monoclonal Antibody (TREM2/7210). Inset: PBS instead of primary antibody; secondary only negative control.

### Specificity & Comments

Polycystic lipomembranous osteodysplasia with sclerosing leukoencephalopathy (PLOS), known as Nasu-Hakola disease, is a recessively inherited disease where individuals display early-onset progressive dementia and bone cysts, which leads to death. Mutations in TYROBP (DAP12), which codes for a membrane receptor component in natural-killer and myeloid cells and mutations in triggering receptor expressed on myeloid cells-2 (TREM-2), correlate well to the pathology of PLOS. TREM-2 is a cell surface receptor on human monocyte-derived dendritic cells that forms a receptor signaling complex with DAP12 and triggers activation of the immune response in macrophages and dendritic cells (DC). The TREM-2/DAP12 complex is a molecular promoter of upregulation of CC chemokine receptor 7, partial DC maturation, and DC survival through activation of protein tyrosine kinases and extracellular signal regulated kinase. The human chronic inflammatory TREM-2 gene maps to chromosome 6p21.1 and encodes a 230 amino acid protein.

### Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

### Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

### Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

### Research Areas

Cardiovascular, Dendritic Cell Marker, Developmental Biology, Immunology, Neuroscience