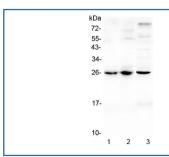


Trem1 Antibody (R32922)

Catalog No.	Formulation	Size
R32922	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
UniProt	Q9JKE2
Applications	Western Blot: 0.5-1ug/ml ELISA (Capture; Recombinant Mouse Protein): 0.1-0.5ug/ml (BSA-free format available)
Limitations	This Trem1 antibody is available for research use only.



Western blot testing of 1) mouse lung, 2) mouse spleen and 3) rat spleen lysate with Trem1 antibody at 0.5ug/ml. Predicted molecular weight: 26-30 kDa depending on glycosylation level.

Description

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.

Application Notes

Optimal dilution of the Trem1 antibody should be determined by the researcher.

Immunogen

A recombinant mouse protein corresponding to amino acids A21-S202 was used as the immunogen for the Trem1 antibody.

Storage

After reconstitution, the Trem1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.