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Product datasheet for AM26305PU-N

Trem2 Rat Monoclonal Antibody [Clone ID: 6E9]

Product data:

Product Type:	Primary Antibodies
Clone Name:	6E9
Applications:	ELISA, IP
Recommended Dilution:	**Flow Cytometry:** The typical starting working dilution is 1/50 (Ref.1). **Immunoassay.** **Immnoprecipitation:** Ref.1.
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Mouse recombinant TREM-2 protein
Specificity:	The monoclonal antibody 6E9 recognizes membrane-bound as well as soluble triggering receptor expressed on myeloid cells-2 (TREM-2).
Formulation:	PBS State: Purified State: Liquid 0.2 µm filtered Ig fraction Stabilizer: 0.1% BSA Preservative: 02% Sodium Azide
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.
Gene Name:	triggering receptor expressed on myeloid cells 2
Database Link:	Entrez Gene 83433 Mouse Q99NH8

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Background: TREM-2 is a 26 kDa transmembrane glycoprotein that consists of a single extracellular immunoglobulin-like domain, a transmembrane region with a charged lysine residue and a short cytoplasmic tail. It associates with DNAX-activation protein 12 (DAP12) for signaling and function. TREM-2 is expressed on immature monocyte-derived dendritic cells. After activation by microbial products or tumor necrosis factor (TNF) and TNF-related proteins, dendritic cells downregulate the expression of TREM-2. TREM-2 is also expressed by osteoclasts and microglia, where it is involved in bone modeling and brain function, respectively. Another role of TREM-2 might be promoting the removal of apoptotic cells, organic matrix and macromolecules by microglia. Defects in TREM-2 are a cause of polycystic lipomembranous osteodysplasia with sclerosing leukoencephalopathy (PLOSL), also called presenile dementia with bone cysts or Nasu-Hakola disease (NHD). TREM-2, like TREM-1, can be cleaved on the membrane to release a soluble form of TREM-2 (sTREM-2). Elevated levels of sTREM-2 in CSF of multiple sclerosis patients have been detected. This elevated level may inhibit the anti-inflammatory function of the membrane-bound receptor suggesting sTREM-2 to be a possible target for future therapies.

Synonyms: TREM-2, Trem2a, Trem2b, Trem2c