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Datasheet for ABIN2191861

anti-TREM2 antibody

1 Publication

Overview

Quantity:	100 µg
Target:	TREM2
Reactivity:	Mouse
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This TREM2 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunoprecipitation (IP), Immunoassay (IA)

Product Details

Clone:	6E9
Sterility:	0.2 µm filtered

Target Details

Target:	TREM2
Alternative Name:	Triggering Receptor Expressed On Myeloid Cells 2 (TREM2 Products)
Background:	The monoclonal antibody 6E9 recognizes mouse membrane-bound as well as soluble triggering receptor expressed on myeloid cells-2 (TREM-2). 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

Target Details

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 (PLOS), 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.

Aliases Triggering receptor expressed on monocytes 2, TREM2 Immunogen Mouse recombinant TREM-2 protein

Application Details

Application Notes: For flow cytometry, dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:50.

Restrictions: For Research Use only

Handling

Buffer: PBS, containing 0.1 % bovine serum albumin and 0.02 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C

Storage Comment: Product should be stored at 4 °C. Under recommended storage conditions, product is stable for one year.

Expiry Date: 12 months

Publications

Product cited in: Müller, Peri, Doni, Perruchoud, Landmann, Pasqualini, Mantovani: "High circulating levels of the IL-1 type II decoy receptor in critically ill patients with sepsis: association of high decoy receptor

levels with glucocorticoid administration." in: **Journal of leukocyte biology**, Vol. 72, Issue 4, pp. 643-9, (2002) ([PubMed](#)).

Penton-Rol, Orlando, Polentarutti, Bernasconi, Muzio, Introna, Mantovani et al.: "Bacterial lipopolysaccharide causes rapid shedding, followed by inhibition of mRNA expression, of the IL-1 type II receptor, with concomitant up-regulation of the type I receptor and induction of ..." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 162, Issue 5, pp. 2931-8, (1999) ([PubMed](#)).