abcam

Product datasheet

Anti-TREM2 antibody [EPR23177-106] ab245227

Recombinant   RabMAb

2 References   3 Images

Overview

Product name	Anti-TREM2 antibody [EPR23177-106]
Description	Rabbit monoclonal [EPR23177-106] to TREM2
Host species	Rabbit
Tested applications	**Suitable for:** Flow Cyt, ICC/IF **Unsuitable for:** IHC-P,IP or WB
Species reactivity	**Reacts with:** Mouse
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	ICC/IF: RAW 264.7 cells. Flow Cyt: RAW 267.4 cells.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information **see here**.

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR23177-106
Isotype	IgG

Applications

The Abpromise guarantee   Our **Abpromise guarantee** covers the use of ab245227 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
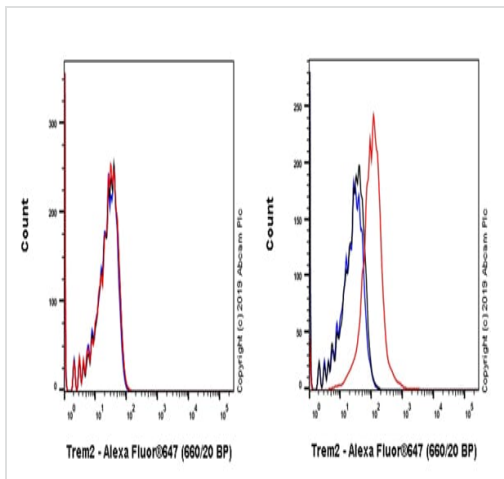
Application	Abreviews	Notes
Flow Cyt		1/60.
ICC/IF		1/100.

Application notes   Is unsuitable for IHC-P,IP or WB.

Target

Function   May have a role in chronic inflammations and may stimulate production of constitutive rather than inflammatory chemokines and cytokines. Forms a receptor signaling complex with TYROBP and triggers activation of the immune responses in macrophages and dendritic cells.

Tissue specificity   Expressed on macrophages and dendritic cells but not on granulocytes or monocytes. In the CNS strongest expression seen in the basal ganglia, corpus callosum, medulla oblongata and spinal cord.

Involvement in disease   Defects in TREM2 are a cause of polycystic lipomembranous osteodysplasia with sclerosing leukoencephalopathy (PLOSL) [MIM:221770]; also known as presenile dementia with bone cysts or Nasu-Hakola disease (NHD). PLOSL is a recessively inherited disease characterized by a combination of psychotic symptoms rapidly progressing to presenile dementia and bone cysts restricted to wrists and ankles. PLOSL has a global distribution, although most of the patients have been diagnosed in Finland and Japan, with an estimated population prevalence of 2x10(-6) in the Finns.

Sequence similarities   Contains 1 Ig-like V-type (immunoglobulin-like) domain.

Cellular localization   Secreted and Cell membrane.

Images

Flow Cytometry - Anti-TREM2 antibody [EPR23177-106] (ab245227)

Flow cytometric analysis of Neuro-2a (Mouse neuroblastoma neuroblast, Left) / RAW 264.7 (Mouse Abelson murine leukemia virus-induced tumor macrophage, Right) cells labelling Trem2 with ab245227 at 1/60 dilution (Red) compared with a Rabbit monoclonal IgG (**ab172730**) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). Goat anti rabbit IgG (Alexa Fluor® 647, **ab150079**) at 1/2000 dilution was used as the secondary antibody.

Negative control: Neuro-2a (PMID: 19302484).

Gated on viable cells.

Brighter secondary antibody like Alexa Fluor® 647 is required to get desirable staining.
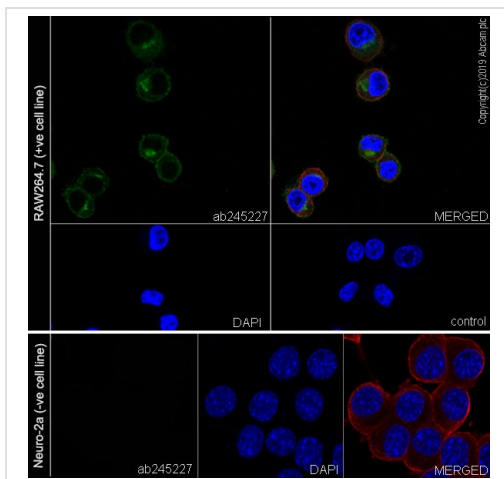
Immunocytochemistry/ Immunofluorescence - Anti-TREM2 antibody [EPR23177-106] (ab245227)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized RAW 264.7 (mouse Abelson murine leukemia virus-induced tumor macrophage) cells labelling Trem2 with ab245227 at 1/100 dilution, followed by **ab150077** AlexaFluor®488 Goat anti-Rabbit secondary antibody at 1/1000 dilution (Green). Confocal image showing cytoplasmic and staining in RAW 264.7 cell line. **Negative control:** Neuro-2a (PMID: 19302484). **ab195889** Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (Red). The Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is **ab150077** AlexaFluor®488 Goat anti-Rabbit secondary at 1/1000 dilution.

Why choose a recombinant antibody?

Research with confidence
Consistent and reproducible results

Long-term and scalable supply
Recombinant technology

Success from the first experiment
Confirmed specificity

Ethical standards compliant
Animal-free production

Anti-TREM2 antibody [EPR23177-106] (ab245227)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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