abcam

Product datasheet

Anti-ILT-4 antibody [EPR22081] ab224701

Recombinant RabMAb

3 Images

Overview

Product name	Anti-ILT-4 antibody [EPR22081]
Description	Rabbit monoclonal [EPR22081] to ILT-4
Host species	Rabbit
Tested applications	**Suitable for:** ICC/IF, Flow Cyt **Unsuitable for:** IHC-P or WB
Species reactivity	**Reacts with:** Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	ICC/IF: Human PBMC. Flow Cyt: Human PBMC.
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	EPR22081
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab224701 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
ICC/IF		1/50.
Flow Cyt		1/500.

Application notes Is unsuitable for IHC-P or WB.

Target

Function Receptor for class I MHC antigens. Recognizes a broad spectrum of HLA-A, HLA-B, HLA-C and HLA-G alleles. Involved in the down-regulation of the immune response and the development of tolerance. Competes with CD8A for binding to class I MHC antigens. Inhibits FCGR1A-mediated phosphorylation of cellular proteins and mobilization of intracellular calcium ions.

Tissue specificity Expressed on monocytes and B-cells, and at lower levels on dendritic cells. Detected at low levels in natural killer (NK) cells.

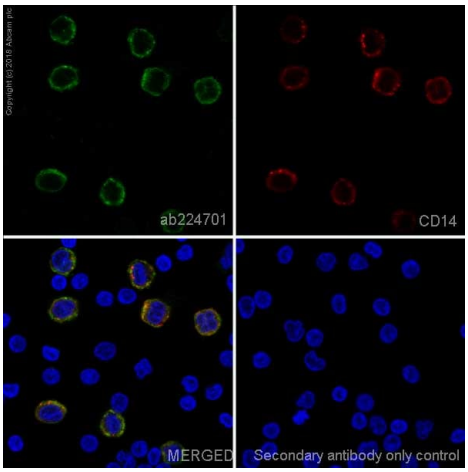
Sequence similarities Contains 4 Ig-like C2-type (immunoglobulin-like) domains.

Domain Contains 3 copies of a cytoplasmic motif that is referred to as the immunoreceptor tyrosine-based inhibitor motif (ITIM). This motif is involved in modulation of cellular responses. The phosphorylated ITIM motif can bind the SH2 domain of several SH2-containing phosphatases.

Post-translational modifications Phosphorylated on tyrosine residues. Dephosphorylated by PTPN6.

Cellular localization Membrane.

Images

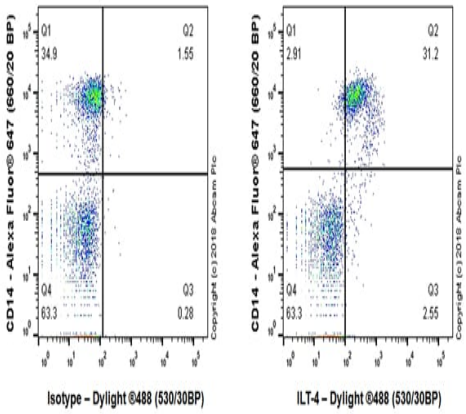


Immunocytochemistry/ Immunofluorescence - Anti-ILT-4 antibody [EPR22081] (ab224701)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized Human PBMC (human primary peripheral blood mononuclear cell) cells labeling ILT-4 with ab224701 at 1/50 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green). Confocal image showing co-staining with CD14 and cytoplasmic staining in PBMC cells. The nuclear counterstain is DAPI (blue). Counterstained with an Alexa Fluor® 647 anti-human CD14 antibody at a 1/100 dilution (red).

The **negative control** is the secondary antibody only.

ILT-4 is expressed in monocytes (PMID:10879687) and CD14 is an established marker for monocytes and macrophages (PMID: 23382732).



Flow Cytometry - Anti-ILT-4 antibody [EPR22081] (ab224701)

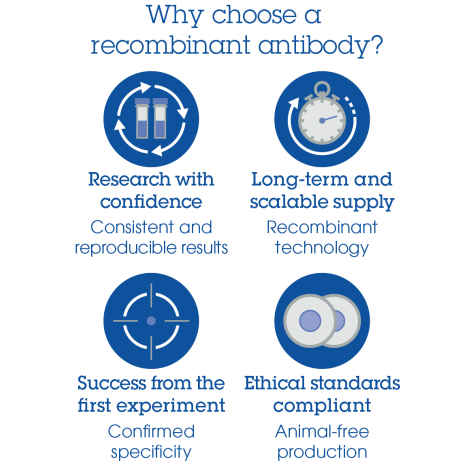
Flow cytometric analysis of human primary peripheral blood mononuclear cell (PBMC) labeling ILT-4 with ab224701 at 1/500 (right panel) compared with a Rabbit IgG, monoclonal [EPR25A] - Isotype Control (**ab172730**) (left panel). Goat anti rabbit IgG (Dylight ® 488, **ab98462**) at 1/2000 dilution was used as the secondary antibody.

Cells were stained with Alexa Fluor® 647-conjugated CD14 and rabbit IgG (Left) or ILT-4 (Right).

Data shown were gated on viable cells.

The CD14 co-staining result observed is consistent with what has been described in the literature (PMID:10879687).

ILT-4 is expressed in monocytes and CD14 is an established marker for monocytes and macrophages (PMID: 23382732).



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