


Product datasheet

Anti-TLR3 antibody [TLR3.7] ab12085

★★★★★ [1 Abreviews](#) [12 References](#) [1 Image](#)

Overview

Product name	Anti-TLR3 antibody [TLR3.7]
Description	Mouse monoclonal [TLR3.7] to TLR3
Host species	Mouse
Tested applications	Suitable for: Flow Cyt (Intra) Unsuitable for: WB
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Dog 
Immunogen	Recombinant full length protein (DDDDK-tag) corresponding to Human TLR3. Human DDDDK-tagged TLR3 stably expressed by Ba/F3 cells.
Positive control	Placenta and pancreas. Monocyte-derived immature dendritic cells (see paper by Matsumoto et al,2003). Monocytes, granulocytes, lymphocytes, human fibroblast, MRC-5 & FS-4 cells Flow Cyt (Intra):THP-1 cells.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Constituents: PBS, 0.1% BSA
Purity	Protein G purified
Purification notes	0.2 µm filtered
Clonality	Monoclonal
Clone number	TLR3.7
Isotype	IgG1

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab12085 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 (Intra)		1/10. See paper by Matsumoto et al, 2003. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody

Application notes

Is unsuitable for WB.

Target

Function

Key component of innate and adaptive immunity. TLRs (Toll-like receptors) control host immune response against pathogens through recognition of molecular patterns specific of microorganisms. TLR3 is a nucleotide-sensing TLR which is activated by double-stranded RNA, a sign of viral infection. Acts via MYD88 and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response.

Tissue specificity

Expressed at high level in placenta and pancreas. Also detected in CD11c+ immature dendritic cells. Only expressed in dendritic cells and not in other leukocytes, including monocyte precursors. TLR3 is the TLR that is expressed most strongly in the brain, especially in astrocytes, glia, and neurons.

Involvement in disease

Defects in TLR3 are associated with herpes simplex encephalitis type 2 (HSE2) [MIM:613002]. HSE is a rare complication of human herpesvirus 1 (HHV-1) infection, occurring in only a small minority of HHV-1 infected individuals. HSE is characterized by hemorrhagic necrosis of parts of the temporal and frontal lobes. Onset is over several days and involves fever, headache, seizures, stupor, and often coma, frequently with a fatal outcome. Note=TLR3 mutations predispose otherwise healthy individuals to isolated herpes simplex encephalitis through a mechanism that involves impaired IFNs production and reduced immune defense against viral infection in the central nervous system.

Sequence similarities

Belongs to the Toll-like receptor family.
Contains 22 LRR (leucine-rich) repeats.
Contains 1 LRRCT domain.
Contains 1 LRRNT domain.
Contains 1 TIR domain.

Domain

ds-RNA binding is mediated by LRR 1 to 3, and LRR 17 to 18.

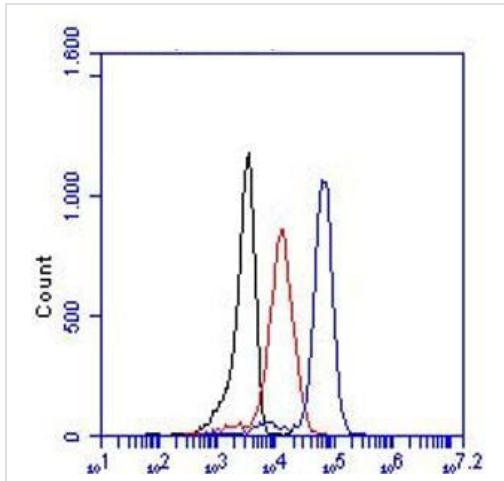
Post-translational modifications

Heavily N-glycosylated, except on that part of the surface of the ectodomain that is involved in ligand binding.

Cellular localization

Endoplasmic reticulum membrane. Endosome membrane.

Images



Flow cytometric detection of human TLR3 on THP-1 cells. Red line represents the isotype control and the black line represents ab12085 at 10 µg/ml.

Flow Cytometry (Intracellular) - Anti-TLR3 antibody
[TLR3.7] (ab12085)

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

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