abcam

Product datasheet

PE Anti-TLR3 antibody [40C1285.6] ab45093

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Overview

Product name	PE Anti-TLR3 antibody [40C1285.6]
Description	PE Mouse monoclonal [40C1285.6] to TLR3
Host species	Mouse
Conjugation	PE. Ex: 488nm, Em: 575nm
Tested applications	**Suitable for:** Flow Cyt (Intra)
Species reactivity	**Reacts with:** Human
Immunogen	This antibody was developed against KLH-conjugated synthetic peptide of human TLR3.
Positive control	Human intestine or Ramos. Flow Cyt (Intra): Ramos, A549 cells
General notes	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. 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

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	Preservative: 0.02% Sodium azide Constituent: PBS
Purity	Protein G purified
Clonality	Monoclonal
Clone number	40C1285.6
Isotype	IgG1

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab45093 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)		

Application notes

FACS:(Intracellular) Use 2 - 5µg for 10^6 cells.
WB: Use at a concentration of 1 - 3 µg/ml. Predicted molecular weight: 104 kDa.

This antibody has tested negative by western blot in mouse intestine cell lysate.

Not yet tested in other applications.
Optimal dilutions/concentrations should be determined by the end user.

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.

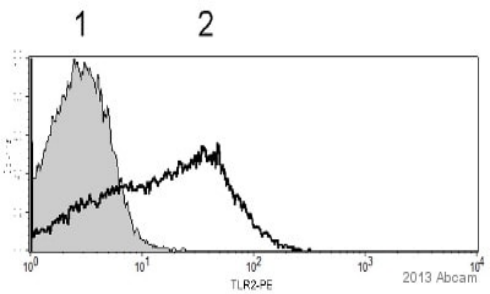
Post-translational modifications

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.

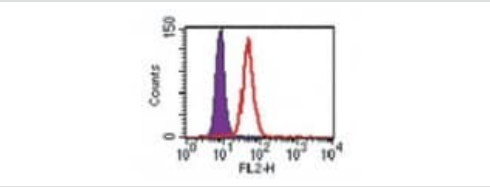
Images



Flow Cytometry (Intracellular) - PE Anti-TLR3 antibody [40C1285.6] (ab45093)

This image is courtesy of an anonymous Abreview

ab45093 staining TLR3 in Human A549 (lung epithelial) cell line by Flow Cytometry. The sample was incubated with the primary antibody (5µg/ml in 0.1% Saponin + 1% FCS in PBS) for 45 minutes at 4°C. 1 = isotype control, 2 = ab45093



Flow Cytometry (Intracellular) - PE Anti-TLR3 antibody [40C1285.6] (ab45093)

ab45093, at 3 ug/ 1X10^6 cells, staining Ramos cells by Intracellular flow cytometric analysis. Toll-Like-Receptor3 (open peak) and isotype negative control (shaded peak).

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