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Product datasheet

Biotin Anti-TLR3 antibody [TLR3.7] ab17264

2 References   1 Image

Overview

Product name	Biotin Anti-TLR3 antibody [TLR3.7]
Description	Biotin Mouse monoclonal [TLR3.7] to TLR3
Host species	Mouse
Conjugation	Biotin
Tested applications	**Suitable for:** Flow Cyt (Intra)
Species reactivity	**Reacts with:** Human
Immunogen	Human Flag-tagged TLR3 stably expressed by Ba/F3 cells.
Positive control	Monocytes, granulocytes, lymphocytes, human fibroblast, MRC-5 & FS-4 cells. Flow Cyt (Intra): THP-1 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 short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.02% Sodium azide 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 ab17264 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)		1/50. **ab18434** - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

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.

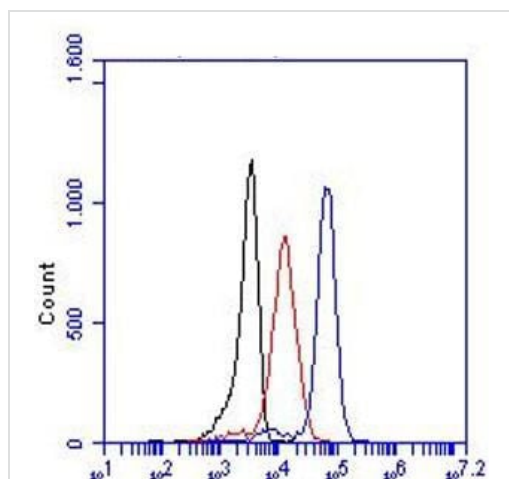**Domain**   ds-RNA binding is mediated by LRR 1 to 3, and LRR 17 to 18.

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 ab17264 at 10 µg/ml.

Flow Cytometry (Intracellular) - Biotin Anti-TLR3 antibody [TLR3.7] (ab17264)

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