abcam

ab113446

Anti-TLR10 antibody [3C10C5]

Key facts

Isotype	IgG1
Host species	Mouse
Storage buffer	Preservative: 0.05% Sodium azide Constituents: PBS, 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	Recombinant Fragment Protein within Human TLR10 aa 1-500. The exact immunogen used to generate this antibody is proprietary information. Database link Q9BXR5
Clone number	3C10C5
Purification technique	Affinity purification Protein G
Light chain type	kappa
Concentration	0.5 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Expected

Species	Human
Dilution info	-

Notes	ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Target data

See full target information TLR10

Function	Participates in the innate immune response to microbial agents. Acts via MYD88 and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response (By similarity).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	TLR10 also known as Toll-like receptor 10 is part of the Toll-like receptor family and its molecular weight is approximately 90 kDa. TLR10 is expressed in various tissues more particularly in immune cells such as B cells monocytes and dendritic cells. It plays a mechanical role in recognizing pathogen-associated molecular patterns which is important for the activation of innate immune responses.
Biological function summary	TLR10 is involved in mediating immune system responses against pathogens. While it has shown similarities with other toll-like receptors its exact ligands and signaling pathways are still under investigation. TLR10 may exist as part of a receptor complex which helps in transmitting signals from pathogens to activate appropriate immune responses. This receptor's involvement suggests it has an important role in innate immunity and inflammation regulation.
Pathways	Several scientific studies have indicated that TLR10 participates in the innate immune signaling pathways. It potentially interacts with components of the TLR signaling pathway similar to other members of the TLR family like TLR2 and TLR4. Through the MyD88-dependent signaling pathway TLR10 may activate transcription factors such as NF-kB which leads to the production of pro-

	inflammatory cytokines. These interactions suggest TLR10 is important for modulating immune responses.
Associated diseases and disorders	Researchers have linked TLR10 to inflammatory conditions and immune system disorders. Current research shows that altered expression or function of TLR10 could relate to autoimmune diseases like rheumatoid arthritis through its influence on immune cell activation. Additionally TLR10 has connections to certain cancers as inflammation pathways can also contribute to cancer development. TLR10 in conjunction with other Toll-like receptors may influence disease progression and offers potential as a therapeutic target.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

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