BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Toll-like receptor 9 TLR9 Antibody

Catalog Number: A00198-2

About TLR9

Toll-like receptors (TLRs) are evolutionarily conserved pattern-recognition molecules resembling the toll proteins that mediate antimicrobial responses in Drosophila. These proteins recognize different microbial products during infection and serve as an important link between the innate and adaptive immune responses. TLR9 forms a subfamily along with TLR7 and TLR8 that recognize viral RNA and CpG DNA sequences and are localized in intracellular acidic compartments such as the phagolysosome. Unlike other TLRs which act through adaptor molecules such as TOLLIP, TIRAP, TRIF, and MyD88 to activate various kinases and transcription factors to respond to potential infection, TLR9 is strictly dependent on MyD88.

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Overview

Product Name	Anti-Toll-like receptor 9 TLR9 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Toll-like receptor 9 TLR9 Antibody (Catalog # A00198-2). Tested in ELISA, WB, ICC, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, ICC, WB
Clonality	Polyclonal
Formulation	TLR9 Antibody is supplied in PBS containing ≤0.09% sodium azide.
Storage Instructions	TLR9 antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	Q9NR96

Technical Details

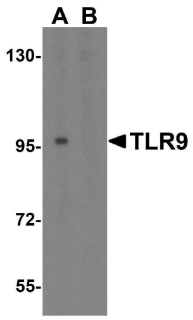
Immunogen	TLR9 antibody was raised against a peptide corresponding to 15 amino acids near the center of human TLR9. The immunogen is located within amino acids 840 - 890 of TLR9.
Predicted Reactive Species	Bovine, Pig, Sheep

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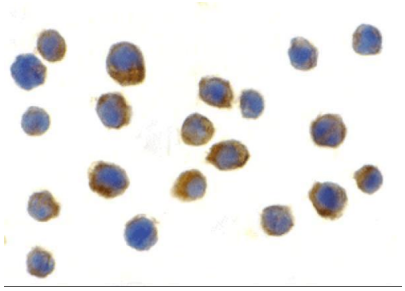
Cross Reactivity	At least two isoforms of TLR9 are known to exist; this antibody will detect both isoforms. TLR9 antibody is predicted to not cross-react with other TLR proteins.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	TLR9 Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	TLR9 antibody can be used for detection of TLR9 by Western blot at 1 ug/mL. Antibody can also be used for immunocytochemistry starting at 2 ug/mL. For immunofluorescence start at 20 ug/mL. Antibody validated: Western Blot in human samples; Immunocytochemistry in human samples and Immunofluorescence in mouse samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

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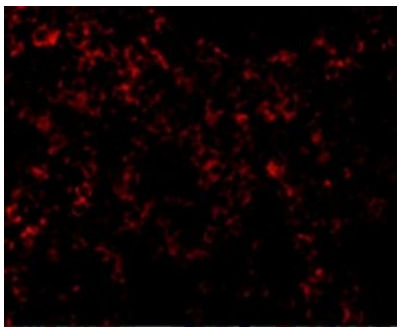
Anti-Toll-like receptor 9 TLR9 Antibody (A00198-2) Images



Western blot analysis of TLR9 in Jurkat cell lysate with TLR9 antibody at 1 ug/mL in (A) the absence and (B) the presence of blocking peptide



Immunocytochemistry of TLR9 in Jurkat cells with TLR9 antibody at 2 ug/mL.



Immunofluorescence of TLR9 in Mouse Spleen tissue with TLR9 antibody at 10 ug/mL.

Anti-Toll-like receptor 9 TLR9 Antibody

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