

Anti-Toll-like receptor 3 TLR3 Antibody

Catalog Number: A00197-2

About TLR3

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. The TLRs act through adaptor molecules such as MyD88 and TIRAP to activate various kinases and transcription factors so the organism can respond to potential infection. TLR3 is known to recognize viral double-stranded (ds) RNA, a molecular pattern associated with viral infection. Recently it has been shown to recognize viruses such as Influenza A and West Nile Virus and can mediate entry of at least West Nile Virus.

Overview

Product Name	Anti-Toll-like receptor 3 TLR3 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Toll-like receptor 3 TLR3 Antibody (Catalog # A00197-2). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	TLR3 Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	TLR3 antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	O15455

Technical Details

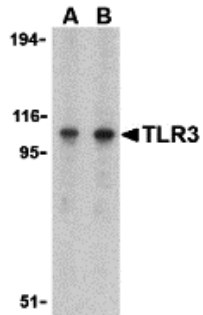
Immunogen	TLR3 antibody was raised against a peptide corresponding to 15 amino acids near the carboxy terminus of human TLR3. The immunogen is located within amino acids 780 - 830 of TLR3.
Predicted Reactive Species	Bovine
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	TLR3 Antibody is affinity chromatography purified via peptide column.

Suggested Dilutions

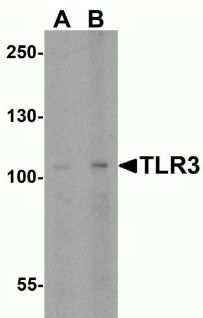
WB: 1-2 ug/mL; IHC-P: 1-2 ug/mL; IHC-P/IF: 5-20 ug/mL.

Antibody validated: Western Blot in human, mouse and rat samples; Immunohistochemistry in mouse, and rat samples; Immunofluorescence in the human and mouse samples. All other applications and species not yet tested.

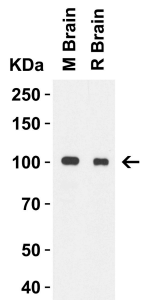
Anti-Toll-like receptor 3 TLR3 Antibody (A00197-2) Images



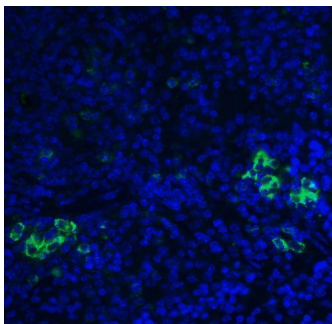
Western blot analysis of TLR3 in Daudi cell lysate with TLR3 antibody at (A) 1 and (B) 2 ug/mL.



WB Validation in Human Cells Loading: 15 ug of lysate
Antibodies: TLR3, A00197-2, 1 u g/mL , 1 h incubation at RT in 5% NFDm/TBST. Secondary: Goat Anti-Rabbit IgG HRP conjugate at 1:10000 dilution.

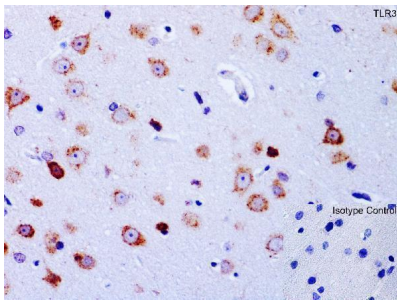
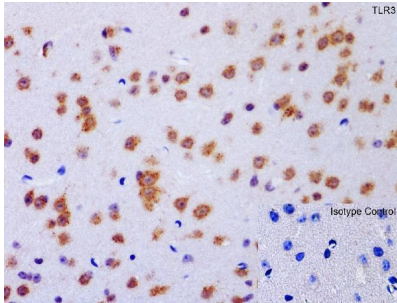
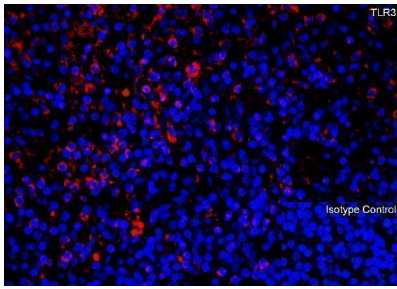


WB Validation in Mouse and Rat Brain Loading: 15 ug of lysate
Antibodies: TLR3, A00197-2, 1 ug/mL , 1 h incubation at RT in 5% NFDm/TBST. Secondary: Goat Anti-Rabbit IgG HRP conjugate at 1:10000 dilution.



Immunofluorescence of TLR3 in mouse spleen tissue with TLR3 antibody at 20 ug/ml. Green: TLR3 Antibody (A00197-2)
Blue: DAPI staining

Immunofluorescence Validation of TLR3 in Human Spleen
Immunofluorescent analysis of 4% paraformaldehyde-fixed human spleen tissue labeling TLR3 with A00197-2 at 10 ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (red) and DAPI staining (blue).



Immunohistochemistry Validation of TLR3 in Mouse Brain
Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-TLR3 antibody (A00197-2) at 1 ug/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4°C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.

Immunohistochemistry Validation of TLR3 in Rat Brain
Immunohistochemical analysis of paraffin-embedded rat brain tissue using anti-TLR3 antibody (A00197-2) at 1 ug/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4°C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.

2 Publications Citing This Product

1. PubMed ID: 33607154, Liao L,Huang L,Wei X,Yin L,Wei X,Li T.Bioinformatic and biochemical studies of formononetin against liver injure.Life Sci.2021 Feb 16:119229.doi:10.1016/j.lfs.2021.119229.Epub ahead of print.PMID:33607154.

2. PubMed ID: 33607154, Liao L,Huang L,Wei X,Yin L,Wei X,Li T.Bioinformatic and biochemical studies of formononetin against liver injure.Life Sci.2021 Feb 16:119229.doi:10.1016/j.lfs.2021.119229.Epub ahead of print.PMID:33607154.

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