BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Toll-like receptor 8 TLR8 Antibody Picoband®

Catalog Number: PA1734

About Tlr8

TLR8 (Toll-like receptor 8) is a protein that in humans is encoded by the TLR8 gene. TLR8 has also been designated as CD288 (cluster of differentiation 288). The TLR8 gene is mapped to Xp22.3-p22.2 by Chuang and Ulevitch (2000) and Du et al. (2000). The protein encoded by this gene is a member of the Toll-like receptor (TLR) family which plays a fundamental role in pathogen recognition and activation of innate immunity. TLRs are highly conserved from Drosophila to humans and share structural and functional similarities. They recognize pathogen-associated molecular patterns (PAMPs) that are expressed on infectious agents, and mediate the production of cytokines necessary for the development of effective immunity. The various TLRs exhibit different patterns of expression. This gene is predominantly expressed in lung and peripheral blood leukocytes, and lies in close proximity to another family member, TLR7, on chromosome X. TLR8 recognises G-rich oligonucleotides.

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Overview

Product Name	Anti-Toll-like receptor 8 TLR8 Antibody Picoband®
Reactive Species	Rat
Description	Boster Bio Anti-Toll-like receptor 8 TLR8 Antibody catalog # PA1734. Tested in WB applications. This antibody reacts with Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na2HPO4.
Storage Instructions	Store at -20˚C for one year from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	A5H300

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of rat TLR8, different from the

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	related mouse sequence by one amino acid.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Rat

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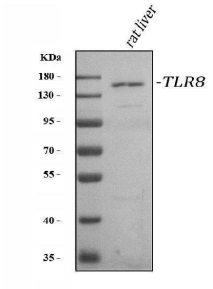
Anti-Toll-like receptor 8 TLR8 Antibody Picoband® (PA1734) Images



Western blot analysis of TLR8 using anti-TLR8 antibody (PA1734). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: rat liver tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-TLR8 antigen affinity purified polyclonal antibody (Catalog # PA1734) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for TLR8 at approximately 150 kDa. The expected band size for TLR8 is at 120 kDa.

Anti-Toll-like receptor 8 TLR8 Antibody

For Research Use Only. Not for use in diagnostic procedures.