

Anti-TLR2 Antibody Picoband®

Catalog Number: A00131

About TLR2

Toll-like receptor 2, also known as TLR-2, is a protein that in humans is encoded by the TLR2 gene. It has also been designated as CD282 (cluster of differentiation 282). TLR-2 plays a role in the immune system. And TLR-2 is a membrane protein, a receptor, which is expressed on the surface of certain cells and recognizes foreign substances and passes on appropriate signals to the cells of the immune system. TLR2 expresses as 4- and 4.4-kb mRNAs in heart, brain, and muscle.

Overview

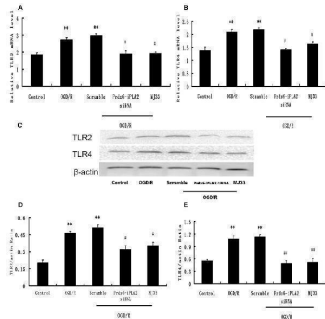
Product Name	Anti-TLR2 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-TLR2 Antibody Picoband® catalog # A00131. Tested in WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and 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 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
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	O60603

Technical Details

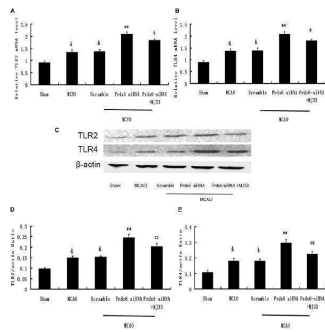
Immunogen	E.coli-derived human TLR2 recombinant protein (Position: H610-S784). Human TLR2 shares 87.4% amino acid (aa) sequence identity with mouse TLR2.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity 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, Human

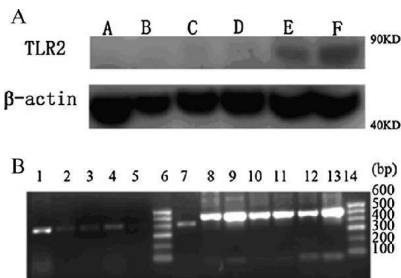
Anti-TLR2 Antibody Picoband® (A00131) Images



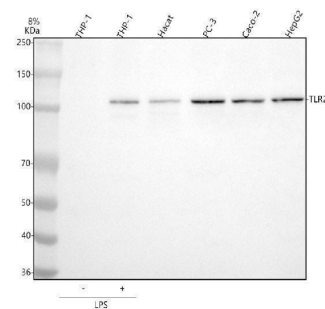
Effect of Prdx6-iPLA2 on Toll-like receptor 2 (TLR2) and TLR4 expression in microglia in response to OGD/R. TLR2 and TLR4 were activated during OGD/R exposure. Prdx6-iPLA2 siRNA or MJ33 treatment could inhibit TLR2 and TLR4 mRNA (A,B) and protein expression (C-E). Results are expressed as the mean \pm SEM of three independent experiments. ** p < 0.01 vs. Control; # p < 0.05 vs. Scramble; ## p < 0.01 vs. Scramble. Index in PubMed under a CC BY license. PMID: 28424593



Expression of TLR2 and TLR4 in response to Prdx6 siRNA and MJ33. Real-time PCR showed that TLR2 (A) and TLR4 (B) expression increased after MCAO or giving Prdx6-siRNA. Combined treatment with Prdx6-siRNA and MJ33 downregulated TLR2 and TLR4 levels. Representative Western blot (C) and semi-quantitative analyses of the levels of TLR2 (D) and TLR4 (E) in the cortex after MCAO. Results are expressed as the mean \pm SEM of three independent experiments. & p < 0.01 vs. Sham; ** p < 0.01 vs. Scramble; # p < 0.05, vs. Prdx6 siRNA; ## p < 0.01 vs. Prdx6 siRNA. Index in PubMed under a CC BY license. PMID: 28424593



Expression of TLR2 in splenocytes of different vaccinated groups on day 2 after infection with *S. aureus*. (A) Western blot detection of TLR2 in splenocytes. Lane A: PBS group; lane B pEGFP-C2 group; lane C pEGFP/HA2 group; lane D pEGFP/Ag85A group; lane E pEGFP/Ag85A-HA2 group; lane F iPR group. (B) RT-PCR detection of TLR2 in splenocytes. Lanes 1, 8: pEGFP/Ag85A-HA2 group; lanes 2, 9: pEGFP-C2 group; lanes 3, 10: pEGFP/HA2 group; lanes 4, 11: pEGFP/Ag85A group; lanes 5, 12: PBS group; lanes 7, 13: iPR group. Lanes 1-5, 7: TLR2 (410 bp); lanes 8-13: GADPH (531 bp); lanes 6, 14: marker. Index in PubMed under a CC BY license. PMID: 23369570



Western blot analysis of TLR2 using anti-TLR2 antibody (A00131). 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 μ g of sample under reducing conditions. Lane 1: human THP-1 (-LPS) whole cell lysates, Lane 2: human THP-1 (+LPS) whole cell lysates, Lane 3: human Hacat whole cell lysates, Lane 4: human PC-3 whole cell lysates, Lane 5: human Caco-2 whole cell lysates, Lane 6: human HepG2 whole cell 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-TLR2 antigen affinity purified polyclonal antibody (A00131) at 0.5 μ g/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 TLR2 at approximately 105 kDa. The expected band size for TLR2 is at 90 kDa.

16 Publications Citing This Product

1. PubMed ID: 10.1186/1743-422X-10-40, A novel DNA vaccine expressing the Ag85A-HA2 fusion protein provides protection against influenza A virus and Staphylococcus aureus
2. PubMed ID: 10.3389/fncel.2017.00099, Phospholipase A2 of Peroxiredoxin 6 Plays a Critical Role in Cerebral Ischemia/Reperfusion Inflammatory Injury
3. PubMed ID: 10.3892/ol.2014.2621, Upregulation of Toll-like receptor 2 expression in colorectal cancer infected by human cytomegalovirus

Visit bosterbio.com/anti-tlr2-picoband-trade-antibody-a00131-boster.html to see all 16 publications.

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Anti-TLR2 Antibody

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