

## 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, Mouse, Rat
Description	Boster Bio Anti-TLR2 Antibody Picoband™ catalog # A00131. Tested in WB applications. This antibody reacts with Human, Mouse, Rat.
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.
Predicted Reactive Species	Chicken
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	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blot, 0.1-0.5ug/ml, Mouse, Rat, Human</p>

## Anti-TLR2 Antibody Picoband™ (A00131) Images

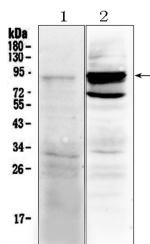


Figure 1. Western blot analysis of TLR2 using anti-TLR2 antibody (A00131).

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 50ug of sample under reducing conditions.

Lane 1: rat spleen tissue lysates,

Lane 2: mouse spleen tissue lysates.

After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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 (Catalog # A00131) 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 1:10000 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 89KD. The expected band size for TLR2 is at 89KD.

## 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

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