Product datasheet

Anti-TLR4 antibody ab13867

★★★★☆ 2 Abreviews  29 References  画像数 2

製品の概要

製品名  Anti-TLR4 antibody
製品の詳細  Rabbit polyclonal to TLR4
由来種  Rabbit
特異性  TLR4 expression levels and cleavage or degradation products can vary between different cell and tissue samples. Customers have observed this variability in WB band size and our laboratory has confirmed this variability as well observing lower molecular weight cleavage and degradation products and in some samples a lack of the full length TLR4 band. The TLR4 cleavage and degradation products and potential lack of full length TLR4 are well documented in the literature, including PMID 16885150 and 22927440. We recommend running a positive control human intestine tissue lysate.

アプリケーション

適用あり：IHC-P, WB

種交差性

交差種：Mouse, Human

交差が予測される動物種：Rat, Rhesus monkey ⚠

免疫原

Synthetic peptide corresponding to TLR4 aa 30-80.

製品の特性

製品の状態  Liquid
バッファー  Preservative: 0.05% Sodium azide
            Constituents: PBS, 0.05% BSA
精製度  Protein G purified
ポリモノ  ポリクローナル
アイソタイプ  IgG

アプリケーション

Our Abpromise guarantee covers the use of ab13867 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Special Notes</th>
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<tbody>
<tr>
<td>IHC-P</td>
<td></td>
<td>Use a concentration of 5 µg/ml.</td>
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<tr>
<td>WB</td>
<td>★★★★★☆</td>
<td>Use a concentration of 2 - 5 µg/ml. Predicted molecular weight: 90 kDa. Recommended lysis buffer: 10 mM Tris, pH 8.0, 130 mM NaCl, 1% Triton X-100, 10 mM NaF, 10 mM NaPi, 10 mM NaPPI (tetrasodium Pyrophosphate)(supplemented with protease inhibitor cocktail).</td>
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**Target Information**

**Function**
Cooperates with LY96 and CD14 to mediate the innate immune response to bacterial lipopolysaccharide (LPS). Acts via MYD88, TIRAP and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response. Also involved in LPS-independent inflammatory responses triggered by Ni(2+). These responses require non-conserved histidines and are, therefore, species-specific.

**Tissue Specificity**
Highly expressed in placenta, spleen and peripheral blood leukocytes. Detected in monocytes, macrophages, dendritic cells and several types of T-cells.

**Disease Association**
Genetic variation in TLR4 is associated with age-related macular degeneration type 10 (ARMD10) [MIM:611488]. ARMD is a multifactorial eye disease and the most common cause of irreversible vision loss in the developed world. In most patients, the disease is manifest as ophthalmoscopically visible yellowish accumulations of protein and lipid that lie beneath the retinal pigment epithelium and within an elastin-containing structure known as Bruch membrane.

**Sequence Similarity**
Belongs to the Toll-like receptor family.
Contains 18 LRR (leucine-rich) repeats.
Contains 1 LRRCT domain.
Contains 1 TIR domain.

**Domain**
The TIR domain mediates interaction with NOX4.

**Post-Translational Modification**
N-glycosylated. Glycosylation of Asn-526 and Asn-575 seems to be necessary for the expression of TLR4 on the cell surface and the LPS-response. Likewise, mutants lacking two or more of the other N-glycosylation sites were deficient in interaction with LPS.

**Cellular Localization**
Membrane.
Western blot analysis of TLR4 using ab13867 at 2 µg/ml. The antibody was tested against partial recombinant mouse TLR4 (extracellular portion) and a 75-80 kDa band was observed. Full length TLR4 is observed at approximately 90 kDa.

Analysis of TLR4 in mouse kidney tissue using ab13867 at 5µg/ml.

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