Product Datasheet

TLR4 Antibody
NB100-56580-0.1mg

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

Reviews: 1  Publications: 19

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Updated 11/9/2018 v.20.1

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**NB100-56580-0.1mg**

**TLR4 Antibody**

### Product Information

<table>
<thead>
<tr>
<th><strong>Unit Size</strong></th>
<th>0.1 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Concentration</strong></td>
<td>0.5 mg/ml</td>
</tr>
<tr>
<td><strong>Storage</strong></td>
<td>Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.</td>
</tr>
<tr>
<td><strong>Clonality</strong></td>
<td>Polyclonal</td>
</tr>
<tr>
<td><strong>Preservative</strong></td>
<td>0.05% Sodium Azide</td>
</tr>
<tr>
<td><strong>Isotype</strong></td>
<td>IgG</td>
</tr>
<tr>
<td><strong>Purity</strong></td>
<td>Protein G purified</td>
</tr>
<tr>
<td><strong>Buffer</strong></td>
<td>PBS</td>
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</table>

### Product Description

<table>
<thead>
<tr>
<th><strong>Host</strong></th>
<th>Rabbit</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gene ID</strong></td>
<td>7099</td>
</tr>
<tr>
<td><strong>Gene Symbol</strong></td>
<td>TLR4</td>
</tr>
<tr>
<td><strong>Species</strong></td>
<td>Human, Mouse, Rat, Primate</td>
</tr>
<tr>
<td><strong>Reactivity Notes</strong></td>
<td>Rat reactivity reported in scientific literature (PMID: 22427516)</td>
</tr>
</tbody>
</table>

**Specificity/Sensitivity**

This 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. Zager et al (2006, Fig. 10) observed TLR4 as an ~95 kDa doublet which is thought to represent different degrees of glycosylation. See Product Citation (Renal Physiol 291:F546-F556) for additional information.

Presumptive TLR4 30 and 60 kDa cleavage fragments are described in Zagar et al 2006.

**Immunogen**

This antibody was developed against a synthetic peptide corresponding to amino acids in a range between 30-80 of mouse TLR4.

### Product Application Details

**Applications**

Western Blot, Immunocytochemistry/Immunofluorescence, Immunohistochemistry-Paraffin

**Recommended Dilutions**

Western Blot 2-5 ug/ml, Immunocytochemistry/Immunofluorescence 2 - 5 ug/ml, Immunohistochemistry-Paraffin 5 ug/ml

**Application Notes**

This 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. Zager et al 2006 (PMID: 16638912) observed TLR4 as an ~95 kDa doublet which is thought to represent different degrees of glycosylation. Presumptive TLR4 30 and 60 kDa cleavage fragments are described in Zagar et al 2007 (PMID: 16885150).
Images
Western Blot: TLR4 Antibody [NB100-56580] - Analysis of TLR4 using this antibody. 1 ug/lane partial recombinant mouse TLR4 protein (tested at 2 ug/ml) and B) RAW cell lysate and C) Daudi cell lysate (tested at 5 ug/ml on tumor cell lysate).

Immunohistochemistry-Paraffin: TLR4 Antibody [NB100-56580] - Analysis of TLR4 in mouse kidney tissue using TLR4 antibody at 5 ug/ml.
### Publications

Koh GY, Kane A, Lee K et al. Parabacteroides distasonis attenuates toll-like receptor 4 signaling and Akt activation and blocks colon tumor formation in high-fat diet-fed azoxymethane-treated mice Int. J. Cancer Apr 26 2018 12:00AM [PMID: 29696632] (WB, Mouse)


Oyama JI, Shiraki A, Nishikido T et al. EGCG, a green tea catechin, attenuates the progression of heart failure induced by the heart/muscle-specific deletion of MnSOD in mice J Cardiol 2016 Jun 30 [PMID: 27374189] (WB, Human)


Riehl TE, Santhanam S, Foster L et al. CD44 and TLR4 mediate hyaluronic acid regulation of Lgr5+ stem cell proliferation, crypt fission, and intestinal growth in postnatal and adult mice. Am J Physiol Gastrointest Liver Physiol 2015 Dec 1 [PMID: 26505972] (Mouse)


Details:

Products cited: 1. TLR4 (IMG-578): WB, TLR4 stably transfected Ba/F3 cells. Note: These cells were immunoprecipitated with a TLR4 mAb (clone UT41) then western blotted with the IMG-578A TLR4 pAb Fig 3B. 3. TLR4 (IMG-428A): Flow (cell surface), RAW264 and

More publications at [http://www.novusbio.com/NB100-56580](http://www.novusbio.com/NB100-56580)
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General: novus@novusbio.com

Products Related to NB100-56580-0.1mg

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<tr>
<th>Product Code</th>
<th>Description</th>
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<tr>
<td>NBP2-25295-1.0mg</td>
<td>LPS from E. Coli, TLR4 ligand</td>
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<tr>
<td>NBP2-26244</td>
<td>TLR4 Inhibitor Peptide Set</td>
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<tr>
<td>HAF008</td>
<td>Goat anti-Rabbit IgG Secondary Antibody [HRP (Horseradish Peroxidase)]</td>
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<tr>
<td>NB7156</td>
<td>Goat anti-Rabbit IgG (H+L) Secondary Antibody</td>
</tr>
<tr>
<td>NBP2-24891</td>
<td>Rabbit IgG Isotype Control</td>
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Limitations
This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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