

Product datasheet

Anti-TLR7 antibody [EPR2088(2)] ab124928

Recombinant RabMAb

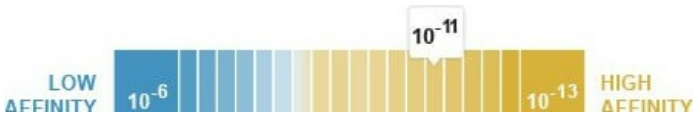
★★★★★ 5 Abreviews 14 References 6 Images

Overview

Product name	Anti-TLR7 antibody [EPR2088(2)]
Description	Rabbit monoclonal [EPR2088(2)] to TLR7
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P Unsuitable for: Flow Cyt or ICC/IF
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide within Human TLR7 aa 1000 to the C-terminus (C terminal). The exact sequence is proprietary. Database link: Q9NYK1
Positive control	WB: Raji, Daudi and Ramos cell lysates. IHC-P: Human tonsil tissue.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
Dissociation constant (K _D)	K _D = 2.90 x 10 ⁻¹¹ M





[Learn more about K_D](#)

Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 0.05% BSA, 59% PBS
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR2088(2)
Isotype	IgG

Applications

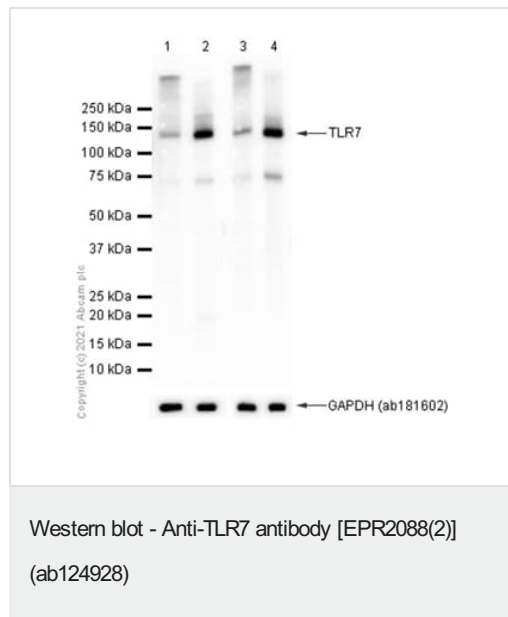
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab124928 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ (2)	1/1000. Detects a band of approximately 140 kDa (predicted molecular weight: 121 kDa). For unpurified use at 1/300. To achieve desired WB results, do not to boil samples after lysis.
IHC-P	★★★★★ (3)	1/100. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See IHC antigen retrieval protocols . For unpurified use at 1/30.

Application notes Is unsuitable for Flow Cyt or ICC/IF.

Target

Function	Key component of innate and adaptive immunity. TLRs (Toll-like receptors) control host immune response against pathogens through recognition of molecular patterns specific of microorganisms. TLR7 is a nucleotide-sensing TLR which is activated by single-stranded RNA. Acts via MYD88 and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response.
Tissue specificity	Detected in brain, placenta, spleen, stomach, small intestine, lung and in plasmacytoid pre-dendritic cells.
Sequence similarities	Belongs to the Toll-like receptor family. Contains 27 LRR (leucine-rich) repeats. Contains 1 TIR domain.
Cellular localization	Endoplasmic reticulum membrane. Endosome. Lysosome. Cytoplasmic vesicle > phagosome. Relocalizes from endoplasmic reticulum to endosome and lysosome upon stimulation with agonist.



All lanes : Anti-TLR7 antibody [EPR2088(2)] (ab124928) at 1/1000 dilution

Lane 1 : Ramos (Human Burkitt's lymphoma B lymphocyte) whole cell lysate (boiled)

Lane 2 : Ramos (Human Burkitt's lymphoma B lymphocyte) whole cell lysate (unboiled)

Lane 3 : Daudi (Human Burkitt's lymphoma lymphoblast) whole cell lysate (boiled)

Lane 4 : Daudi (Human Burkitt's lymphoma lymphoblast) whole cell lysate (unboiled)

Lysates/proteins at 15 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

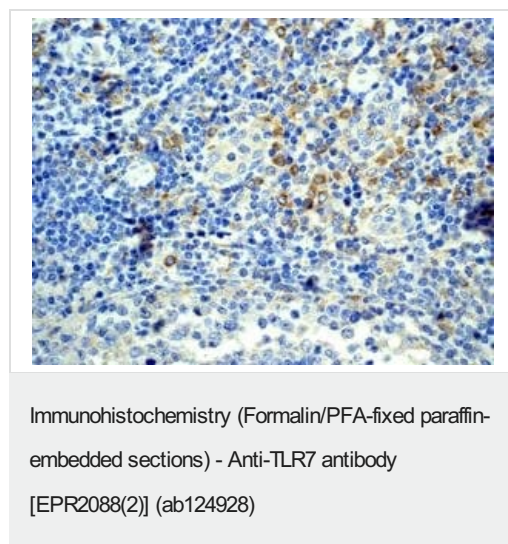
Predicted band size: 121 kDa

Observed band size: 140 kDa

Exposure time: 20 seconds

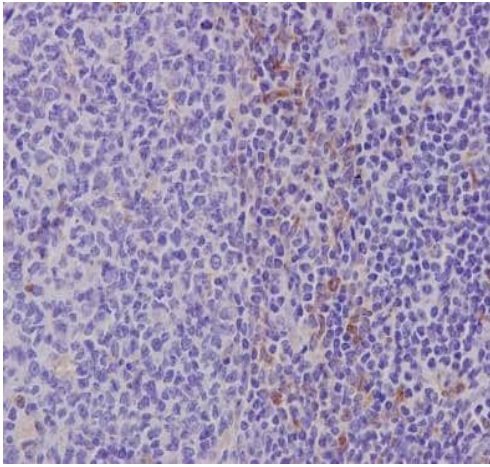
Blocking and diluting buffer and concentration: 5% NFDM /TBST.

We recommend not boiling the samples after lysis to get desired WB results.



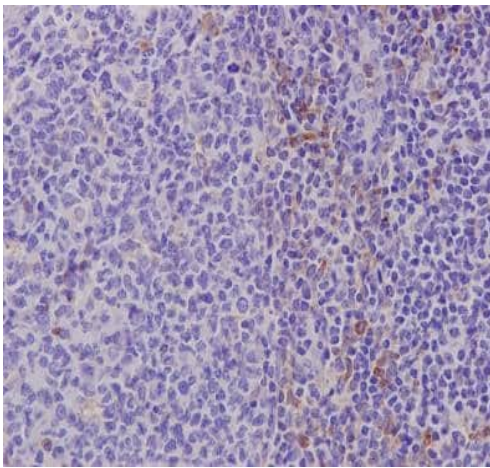
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human tonsil tissue labelling TLR7 with unpurified ab124928 at 1/100.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



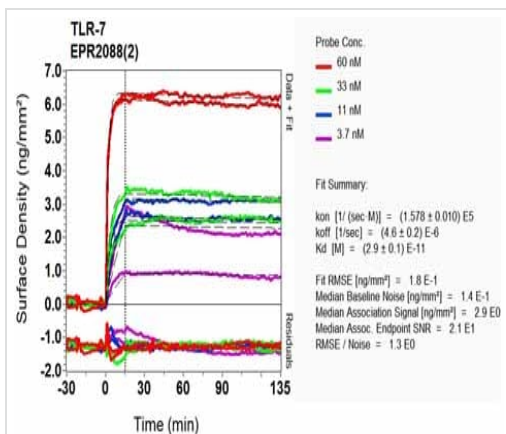
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TLR7 antibody
[EPR2088(2)] (ab124928)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human tonsil tissue labelling TLR7 with purified ab124928 at 1/100. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. A prediluted HRP-polymer conjugated anti-rabbit IgG was used as the secondary antibody. Counterstained with hematoxylin.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TLR7 antibody
[EPR2088(2)] (ab124928)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human tonsil tissue labelling TLR7 with unpurified ab124928 at 1/100. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. A prediluted HRP-polymer conjugated anti-rabbit IgG was used as the secondary antibody. Counterstained with hematoxylin.



SPR Scanning - Anti-TLR7 antibody [EPR2088(2)]
(ab124928)

Equilibrium dissociation constant (K_D)

Learn more about K_D

[Click here to learn more about \$K_D\$](#)

Why choose a
recombinant antibody?



**Research with
confidence**
Consistent and
reproducible results



**Long-term and
scalable supply**
Recombinant
technology



**Success from the
first experiment**
Confirmed
specificity



**Ethical standards
compliant**
Animal-free
production

Anti-TLR7 antibody [EPR2088(2)] (ab124928)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors