

Product datasheet

Anti-TLR9 antibody [EPR21735] ab211012

Recombinant **RabMAb**

[3 Images](#)

Overview

Product name	Anti-TLR9 antibody [EPR21735]
Description	Rabbit monoclonal [EPR21735] to TLR9
Host species	Rabbit
Tested applications	Suitable for: WB, IP
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment within Human TLR9 aa 1-350. The exact sequence is proprietary. Database link: Q9NR96
Positive control	WB: Raji and Daudi whole cell lysates. IP: Raji whole cell lysate.
General notes	Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents . This product is a recombinant rabbit monoclonal antibody .

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 long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR21735
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab211012** in the following tested applications.

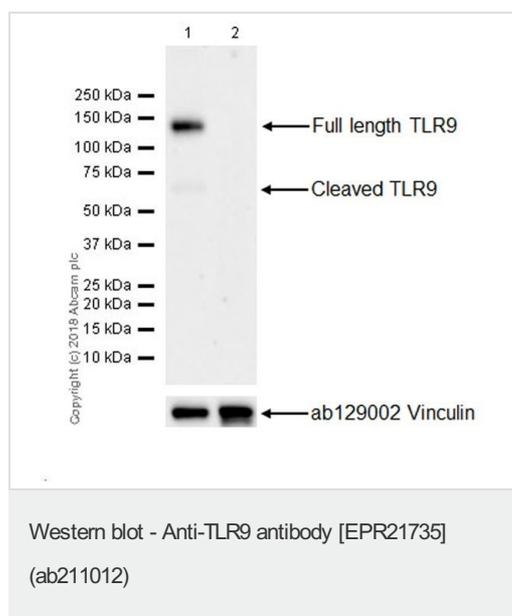
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000. Detects a band of approximately 120, 60 kDa (predicted molecular weight: 116 kDa).
IP		1/30.

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. TLR9 is a nucleotide-sensing TLR which is activated by unmethylated cytidine-phosphate-guanosine (CpG) dinucleotides. Acts via MYD88 and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response.
Tissue specificity	Highly expressed in spleen, lymph node, tonsil and peripheral blood leukocytes, especially in plasmacytoid pre-dendritic cells. Levels are much lower in monocytes and CD11c+ immature dendritic cells. Also detected in lung and liver.
Sequence similarities	Belongs to the Toll-like receptor family. Contains 26 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.

Images



All lanes : Anti-TLR9 antibody [EPR21735] (ab211012) at 1/1000 dilution

Lane 1 : Raji (human Burkitt's lymphoma cell line) whole cell lysate at 10 µg

Lane 2 : THP-1 (human monocytic leukemia cell line) whole cell lysate at 20 µg

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Developed using the ECL technique.

Predicted band size: 116 kDa

Observed band size: 120,60 kDa

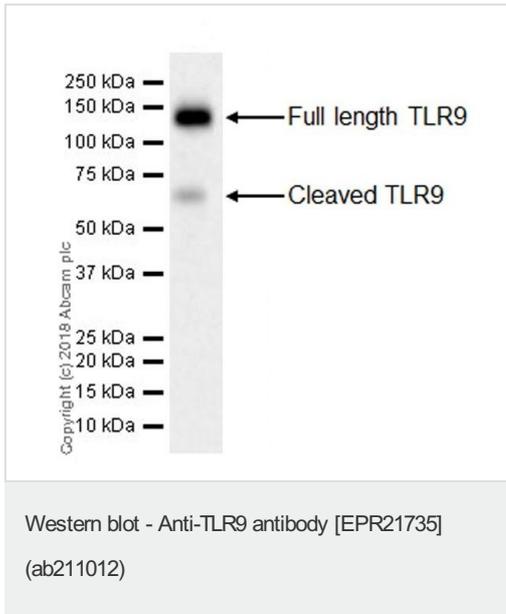
[why is the actual band size different from the predicted?](#)

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDm/TBST.

The cleaved TLR9 (60 kDa) observed is consistent with the literature (PMID: 24582318).

Untreated THP1s have undetectable TLR9, as described in the literature (PMID: 20375564).



Anti-TLR9 antibody [EPR21735] (ab211012) at 1/1000 dilution + Daudi (human Burkitt's lymphoma cell line) whole cell lysate at 20 μ g

Secondary

Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Developed using the ECL technique.

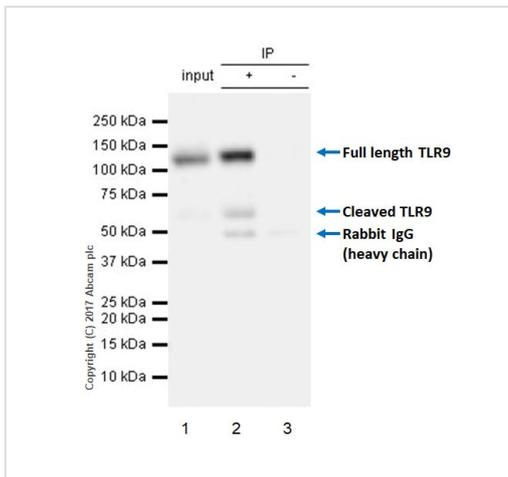
Predicted band size: 116 kDa

Observed band size: 120,60 kDa [why is the actual band size different from the predicted?](#)

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDm/TBST.

The cleaved TLR9 (60 kDa) observed is consistent with the literature (PMID: 24582318).



Immunoprecipitation - Anti-TLR9 antibody
[EPR21735] (ab211012)

TLR9 was immunoprecipitated from 0.35 mg of Raji (human Burkitt's lymphoma cell line) whole cell lysate with ab211012 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab211012 at 1/500 dilution. VeriBlot for IP Detection Reagent (HRP) (ab131366), was used for detection at 1/1000 dilution.

Lane 1: Raji whole cell lysate 10 µg (Input).

Lane 2: ab211012 IP in Raji whole cell lysate.

Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab211012 in Raji whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDm/TBST.

Exposure time: 10 seconds.

The cleaved TLR9 (60 kDa) observed is consistent with the literature (PMID: 24582318).

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