abcam

Product datasheet

Anti-TLR9 antibody [EPR21735] - BSA and Azide free ab232933

KO 評価済 リコンビナント RabMAb

画像数 4

製品の概要

製品名	Anti-TLR9 antibody [EPR21735] - BSA and Azide free
製品の詳細	Rabbit monoclonal [EPR21735] to TLR9 - BSA and Azide free
由来種	Rabbit
アプリケーション	**適用あり:** WB, IP
種交差性	**交差種:** Human
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: Raji whole cell lysate.
特記事項	ab232933 is the carrier-free version of **ab211012**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C. Do Not Freeze.
バッファー	pH: 7.2 Constituent: PBS
キャリア・フリー	はい
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR21735
アイソタイプ	IgG

アプリケーション

The Abpromise guarantee **Abpromise保証は、** 次のテスト済みアプリケーションにおけるab232933の使用に適用されます

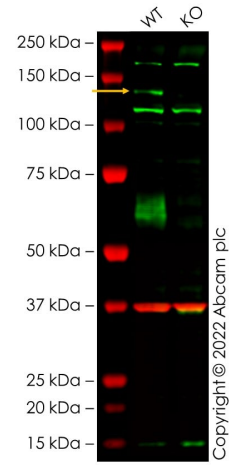
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		Use at an assay dependent concentration. Detects a band of approximately 120, 60 kDa (predicted molecular weight: 116 kDa).
IP		Use at an assay dependent concentration.

ターゲット情報

機能	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.
組織特異性	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.
配列類似性	Belongs to the Toll-like receptor family. Contains 26 LRR (leucine-rich) repeats. Contains 1 TIR domain.
細胞内局在	Endoplasmic reticulum membrane. Endosome. Lysosome. Cytoplasmic vesicle > phagosome. Relocalizes from endoplasmic reticulum to endosome and lysosome upon stimulation with agonist.

画像



Western blot - Anti-TLR9 antibody [EPR21735] - BSA and Azide free (ab232933)

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

Lane 1 : Wild-type Raji cell lysate
Lane 2 : TLR9 knockout Raji cell lysate

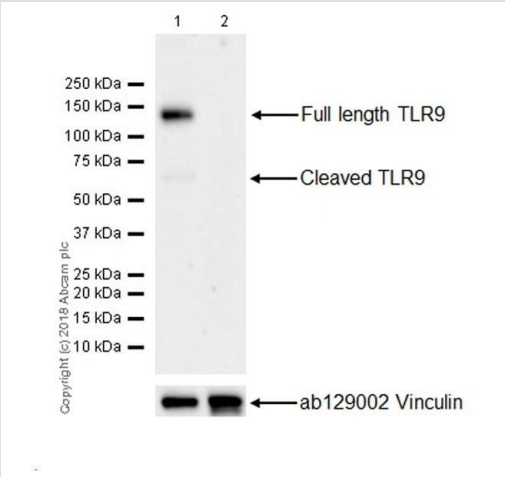
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 116 kDa
Observed band size: 140 kDa

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab211012**).

False colour image of Western blot: Anti-TLR9 antibody [EPR21735] staining at 1/1000 dilution, shown in green; Mouse anti-GAPDH antibody [6C5] (**ab8245**) loading control staining at 1/20000 dilution, shown in red. In Western blot, **ab211012** was shown to bind specifically to TLR9. A band was observed at 140 kDa in wild-type Raji cell lysates with no signal observed at this size in TLR9 knockout cell line **ab280879** (knockout cell lysate **ab282939**). To generate this image, wild-type and TLR9 knockout Raji cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in fluorescent western blot (TBS-based) blocking solution before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L 800CW and Goat anti-Mouse IgG H&L 680RD at 1/20000 dilution.



Western blot - Anti-TLR9 antibody [EPR21735] - BSA and Azide free (ab232933)

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

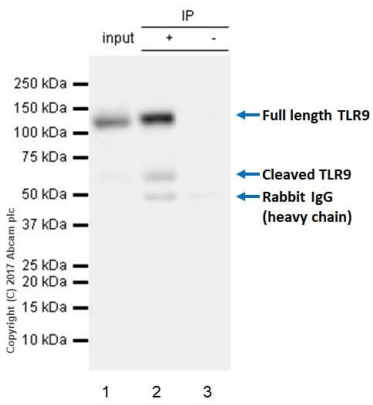
Exposure time: 3 minutes

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).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab211012**).



Immunoprecipitation - Anti-TLR9 antibody [EPR21735] - BSA and Azide free (ab232933)

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).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab211012**).

Anti-TLR9 antibody [EPR21735] - BSA and Azide free (ab232933)

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