

Anti-TLR4 antibody [HTA125] - Low endotoxin, Azide free ab30667

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製品の概要

製品名	Anti-TLR4 antibody [HTA125] - Low endotoxin, Azide free
製品の詳細	Mouse monoclonal [HTA125] to TLR4 - Low endotoxin, Azide free
由来種	Mouse
特異性	ab30667 recognises the human Toll like receptor 4 (TLR4) cell surface antigen. This antibody has been demonstrated to block activation of monocytes with LPS. 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: ICC, Flow Cyt
種交差性	交差種: Rat, Human
免疫原	Tissue, cells or virus corresponding to TLR4. Ba/F3 cell line expressing TLR4.
特記事項	Endotoxin Level: <0.01 EU/ug The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
バッファー	Constituent: PBS
キャリア・フリー	はい

精製度	Immunogen affinity purified
ポリ/モノ	モノクローナル
クローン名	HTA125
ミエローマ	Sp2/0
アイソタイプ	IgG2a

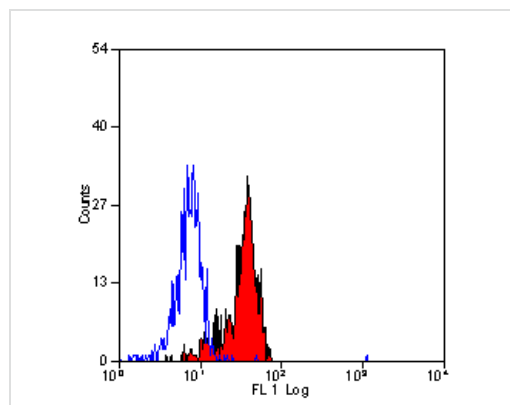
アプリケーション

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ab30667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
ICC		Use at an assay dependent concentration.
Flow Cyt		1/10 - 1/50. Use 10µl of the suggested working dilution to label 10 ⁶ cells or 100µl whole blood. ab170191 - Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody.

ターゲット情報

機能	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.
組織特異性	Highly expressed in placenta, spleen and peripheral blood leukocytes. Detected in monocytes, macrophages, dendritic cells and several types of T-cells.
関連疾患	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.
配列類似性	Belongs to the Toll-like receptor family. Contains 18 LRR (leucine-rich) repeats. Contains 1 LRRCT domain. Contains 1 TIR domain.
ドメイン	The TIR domain mediates interaction with NOX4.
翻訳後修飾	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.
細胞内局在	Membrane.



Flow Cytometry - Anti-TLR4 antibody [HTA125] -
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ab30667 staining TLR4 in human peripheral blood monocytes by Flow Cytometry analysis.



Immunocytochemistry - Anti-TLR4 antibody
[HTA125] - Low endotoxin, Azide free (ab30667)

ICC/IF image of ab30667 stained rat adrenal medulla PC12 cells. The cells were 4% PFA and 100% Methanol fixed (10 min) and then incubated in 1% BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab30667, 5µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-mouse IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue).

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