

Anti-IRAK4 antibody [2H9] ab119942

KO 評価済

6 References 画像数 8

製品の概要

製品名	Anti-IRAK4 antibody [2H9]
製品の詳細	Mouse monoclonal [2H9] to IRAK4
由来種	Mouse
アプリケーション	適用あり: WB, ELISA, IHC-P, Flow Cyt, ICC/IF
種交差性	交差種: Mouse, Human, African green monkey, Recombinant fragment
免疫原	Recombinant fragment, corresponding to amino acids 21-198 of Human IRAK4
ポジティブ・コントロール	Recombinant IRAK4 protein; THP-1, HeLa, K562, MCF7, U-87 MG, RAW264.7, Jurkat and Cos7 cell lysates; Human lung cancer and kidney cancer tissues; HeLa cells This antibody gave a positive result in IF in the following Formaldehyde fixed cell line: HepG2.
特記事項	<p>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.</p> <p>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</p>

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C long term.
バッファー	Preservative: 0.05% Sodium azide Constituent: PBS
精製度	Protein G purified
特記事項(精製)	Purified from tissue culture supernatant.
ポリ/モノ	モノクローナル
クローン名	2H9
アイソタイプ	IgG1

アプリケーション

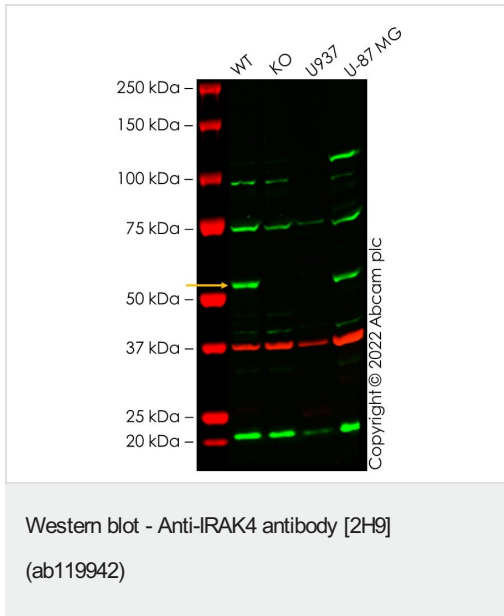
The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab119942の使用に適用されます**
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		1/500 - 1/2000. Predicted molecular weight: 52 kDa.
ELISA		1/10000.
IHC-P		1/200 - 1/1000.
Flow Cyt		1/200 - 1/400. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
ICC/IF		1/100.

ターゲット情報

機能	Required for the efficient recruitment of IRAK1 to the IL-1 receptor complex following IL-1 engagement, triggering intracellular signaling cascades leading to transcriptional up-regulation and mRNA stabilization. Phosphorylates IRAK1.
関連疾患	Defects in IRAK4 are the cause of recurrent isolated invasive pneumococcal disease type 1 (IPD1) [MIM:610799]. Recurrent invasive pneumococcal disease (IPD) is defined as two episodes of IPD occurring at least 1 month apart, whether caused by the same or different serotypes or strains. Recurrent IPD occurs in at least 2% of patients in most series, making IPD the most important known risk factor for subsequent IPD. Defects in IRAK4 are the cause of IRAK4 deficiency (IRAK4D) [MIM:607676]. IRAK4 deficiency causes extracellular pyogenic bacterial and fungal infections in otherwise healthy children.
配列類似性	Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. Pelle subfamily. Contains 1 death domain. Contains 1 protein kinase domain.

画像



All lanes : Anti-IRAK4 antibody [2H9] (ab119942) at 1/500 dilution

Lane 1 : Wild-type THP-1 cell lysate

Lane 2 : IRAK4 knockout THP-1 cell lysate

Lane 3 : U937 cell lysate

Lane 4 : U-87 MG cell lysate

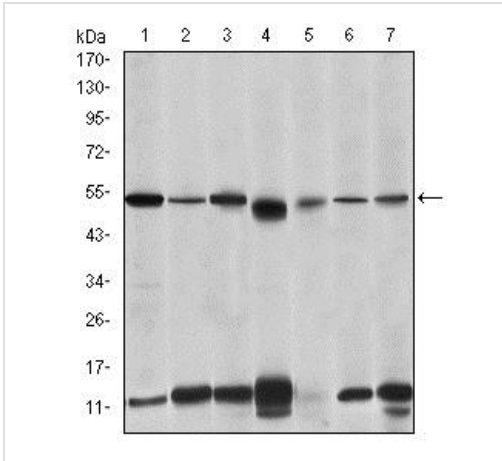
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 52 kDa

Observed band size: 55 kDa

False colour image of Western blot: Anti-IRAK4 antibody [2H9] staining at 1/500 dilution, shown in green; Rabbit Anti-GAPDH antibody [EPR16891] ([ab181602](#)) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab119942 was shown to bind specifically to IRAK4. A band was observed at 55 kDa in wild-type THP-1 cell lysates with no signal observed at this size in IRAK4 knockout cell line [ab281630](#) (knockout cell lysate [ab282980](#)). To generate this image, wild-type and IRAK4 knockout THP-1 cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3 % milk in TBS-0.1 % Tween[®] 20 (TBS-T) 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-Mouse IgG H&L (IRDye[®] 800CW) preabsorbed ([ab216772](#)) and Goat anti-Rabbit IgG H&L (IRDye[®] 680RD) preabsorbed ([ab216777](#)) at 1/20000 dilution.



Western blot - Anti-IRAK4 antibody [2H9]
(ab119942)

All lanes : Anti-IRAK4 antibody [2H9] (ab119942) at 1/500 dilution

Lane 1 : THP-1 cell lysate

Lane 2 : HeLa cell lysate

Lane 3 : K562 cell lysate

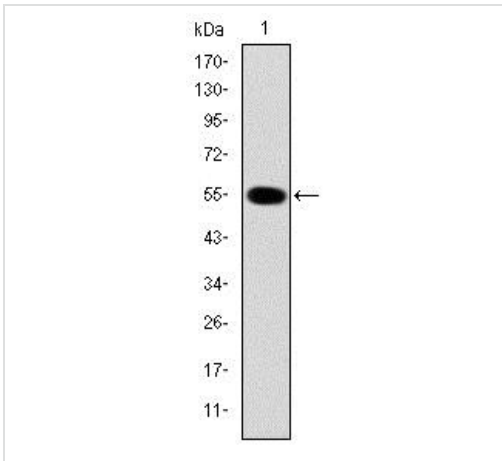
Lane 4 : MCF7 cell lysate

Lane 5 : RAW264.7 cell lysate

Lane 6 : Jurkat cell lysate

Lane 7 : COS-7 (African green monkey kidney fibroblast-like cell line) cell lysate

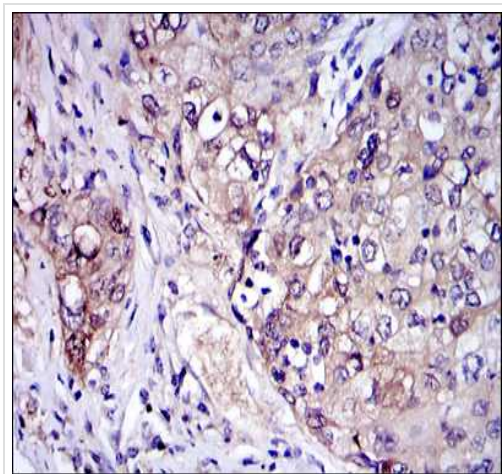
Predicted band size: 52 kDa



Western blot - Anti-IRAK4 antibody [2H9]
(ab119942)

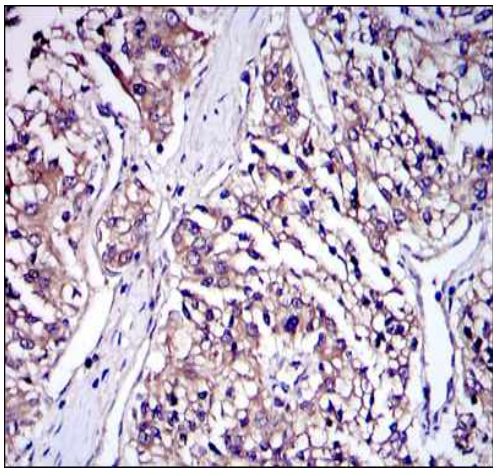
Anti-IRAK4 antibody [2H9] (ab119942) at 1/500 dilution +
Recombinant IRAK4 protein

Predicted band size: 52 kDa



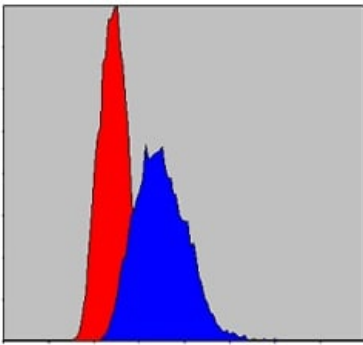
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IRAK4 antibody [2H9]
(ab119942)

ab119942, at 1/200 dilution, staining IRAK4 in paraffin-embedded Human lung cancer tissue by Immunohistochemistry with DAB staining.



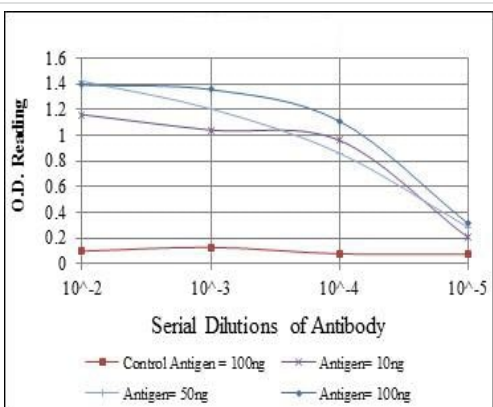
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IRAK4 antibody [2H9] (ab119942)

ab119942, at 1/200 dilution, staining IRAK4 in paraffin-embedded Human kidney cancer tissue by Immunohistochemistry with DAB staining.



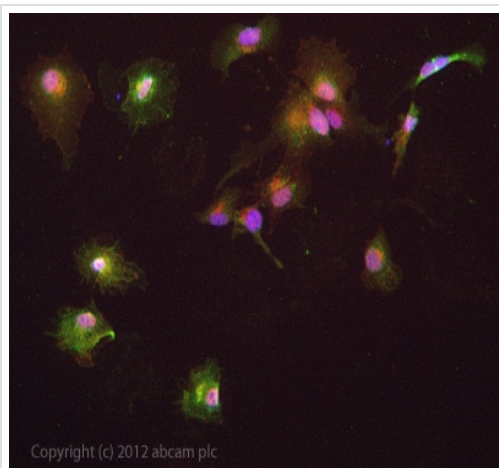
Flow Cytometry - Anti-IRAK4 antibody [2H9] (ab119942)

Flow cytometric analysis of Hela cells using ab119942 at 1/200 dilution (blue) and negative control (red).



ELISA - Anti-IRAK4 antibody [2H9] (ab119942)

ELISA using ab119942.



Immunocytochemistry/ Immunofluorescence - Anti-IRAK4 antibody [2H9] (ab119942)

ab119942 stained HepG2 cells. The cells were 4% formaldehyde 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 ab119942 at 1/100 dilution overnight at +4°C. The secondary antibody (green) was DyLight® 488 goat anti- mouse (**ab96879**) 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) at a concentration of 1.43µM.

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