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Product datasheet

Anti-IRAK-1 antibody [EPR26375-90] ab302554

KO 評価済 リコンビナント RabMAb

1 References 画像数 7

製品の概要

製品名	Anti-IRAK-1 antibody [EPR26375-90]
製品の詳細	Rabbit monoclonal [EPR26375-90] to IRAK-1
由来種	Rabbit
アプリケーション	**適用あり:** WB, IHC-P **適用なし:** Flow Cyt (Intra),ICC/IF or IP
種交差性	**交差種:** Human **非交差種:** Mouse, Rat
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: Whole cell lysates: Wild-type HAP1 (human chronic myelogenous leukemia near-haploid cell line), HeLa (human cervical adenocarcinoma epithelial cell); human: tonsil tissue lysate, hypothalamus tissue lysate. IHC-P: Human: colon carcinoma tissue, lung cancer and adjacent tissue, wild-type HAP1 (Human chronic myelogenous leukemia near-haploid cell) cell pellet.
特記事項	ab302554 does not react in: WB with mouse; IHC-P with mouse and rat; ICC, intracellular flow cytometry and immunoprecipitation with human and mouse species. This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact **orders@abcam.com**. 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 short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long

	term. Avoid freeze / thaw cycle.
バッファー	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR26375-90
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ab302554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。

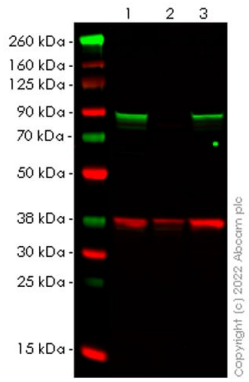
アプリケーション	Abreviews	特記事項
WB		1/500. Detects a band of approximately 80 kDa (predicted molecular weight: 76 kDa).
IHC-P		1/100. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

追加情報 Is unsuitable for Flow Cyt (Intra),ICC/IF or IP.

ターゲット情報

機能	Binds to the IL-1 type I receptor following IL-1 engagement, triggering intracellular signaling cascades leading to transcriptional up-regulation and mRNA stabilization. Isoform 1 binds rapidly but is then degraded allowing isoform 2 to mediate a slower, more sustained response to the cytokine. Isoform 2 is inactive suggesting that the kinase activity of this enzyme is not required for IL-1 signaling. Once phosphorylated, IRAK1 recruits the adapter protein PELI1.
組織特異性	Isoform 1 and isoform 2 are ubiquitously expressed in all tissues examined, with isoform 1 being more strongly expressed than isoform 2.
配列類似性	Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. Pelle subfamily. Contains 1 protein kinase domain.
翻訳後修飾	Autophosphorylated or is transphosphorylated by IRAK4 following recruitment to the IL-1RI. In the case of isoform 1, this is linked to ubiquitination and degradation. Polyubiquitinated; after cell stimulation with IL-1-beta. Polyubiquitination occurs with polyubiquitin chains linked through 'Lys-63'.

画像



Western blot - Anti-IRAK-1 antibody [EPR26375-90] (AB302554)

All lanes : Anti-IRAK-1 antibody [EPR26375-90] (ab302554) at 1/1000 dilution

Lane 1 : Wild-type HAP1 (human chronic myelogenous leukemia near-haploid cell line), whole cell lysate
Lane 2 : IRAK1 knockout HAP1 whole cell lysate
Lane 3 : HeLa (human cervical adenocarcinoma epithelial cell), whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) at 1/10000 dilution

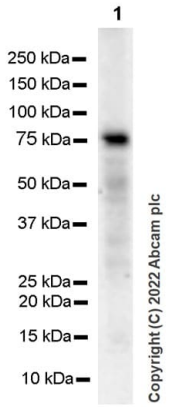
Performed under reducing conditions.

Predicted band size: 76 kDa
Observed band size: 80 kDa

Blocking and diluting buffer and concentration: Intercept® (TBS) Blocking Buffer diluted with an equal volume of 0.1% TBS.

The samples were run on a Bis-Tris gel.
Lysates/proteins at 20 µg per lane.
Performed under reducing conditions.
False colour image of Western blot: Anti-IRAK1 antibody (AB302554) 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, AB302554 was shown to bind specifically to IRAK1. A band was observed at 80 kDa in wild-type HAP1 cell lysates with no signal observed at this size in IRAK1 knockout cell line. To generate this image, wild-type and IRAK1 knockout HAP1 cell lysates were analyzed. First, samples were run on an SDS-PAGE gel then transferred onto an immobilon-FL PVDF membrane. Membranes were blocked in in Intercept® (TBS) Blocking Buffer diluted with an equal volume of 0.1% TBS 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 (IRDye® 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed (**ab216776**) at 1/20000 dilution.



Western blot - Anti-IRAK-1 antibody [EPR26375-90] (AB302554)

Anti-IRAK-1 antibody [EPR26375-90] (ab302554) at 1/500 dilution + Human tonsil tissue lysate at 40 µg

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

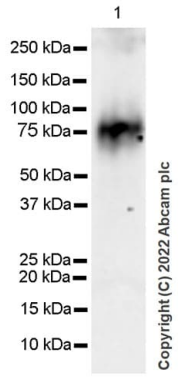
Developed using the ECL technique.

Predicted band size: 76 kDa
Observed band size: 80 kDa

Exposure time: 180 seconds

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

This blot was developed using a high sensitivity ECL substrate.

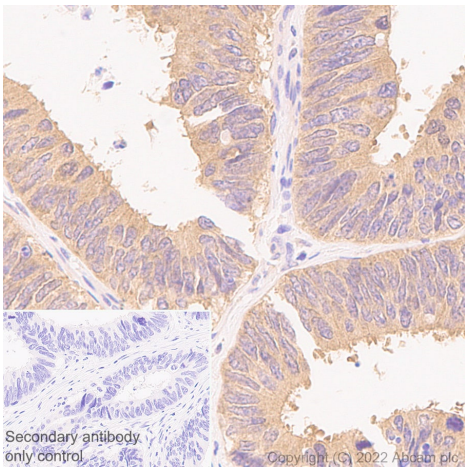


Western blot - Anti-IRAK-1 antibody [EPR26375-90] (AB302554)

Anti-IRAK-1 antibody [EPR26375-90] (ab302554) at 1/500 dilution + Human hypothalamus tissue lysate at 20 µg

Secondary
Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/1000 dilution

Predicted band size: 76 kDa
Observed band size: 80 kDa

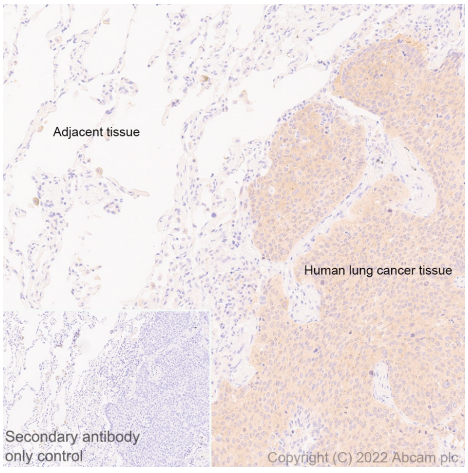


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IRAK-1 antibody [EPR26375-90] (AB302554)

Immunohistochemical analysis of paraffin-embedded human colon carcinoma tissue labeling IRAK-1 with ab302554 at 1/100 dilution (4.53 µg/mL) followed by a ready to use Leica DS9800 (BOND™ Polymer Refine Detection kit). Positive staining in human colon carcinoma. The section was incubated with ab302554 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Leica DS9800 (BOND™ Polymer Refine Detection kit).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins was used.

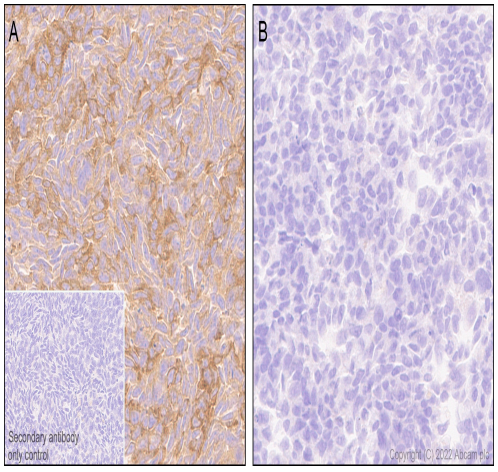


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IRAK-1 antibody [EPR26375-90] (AB302554)

Immunohistochemical analysis of paraffin-embedded human lung cancer and adjacent tissue labeling IRAK-1 with ab302554 at 1/100 dilution (4.53 µg/mL) followed by a ready to use Leica DS9800 (BOND™ Polymer Refine Detection kit). Positive staining in human lung cancer, no staining in the adjacent tissue is observed. The section was incubated with ab302554 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Leica DS9800 (BOND™ Polymer Refine Detection kit).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins was used.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IRAK-1 antibody [EPR26375-90] (AB302554)

Immunohistochemical analysis of paraffin-embedded A) Wild-type HAP1 (Human chronic myelogenous leukemia near-haploid cell) and B) IRAK1 knockout HAP1cell pellets labeling IRAK-1 with ab302554 at 1/100 dilution (4.53 µg/mL) followed by a ready to use Leica DS9800 (BOND™ Polymer Refine Detection kit). Positive staining on (A) wild-type HAP1 cell pellet, no staining on (B) IRAK1 knockout HAP1 cell pellet. The section was incubated with ab302554 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Leica DS9800 (BOND™ Polymer Refine Detection kit).

Anti-IRAK-1 antibody [EPR26375-90] (AB302554)

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