

Anti-ASK1 antibody [EP553Y] ab45178

KO 評価済 リコンビナント RabMAb

★★★★☆ 3 Abreviews 33 References 画像数 7

製品の概要

製品名	Anti-ASK1 antibody [EP553Y]
製品の詳細	Rabbit monoclonal [EP553Y] to ASK1
由来種	Rabbit
アプリケーション	適用あり: Flow Cyt (Intra), WB, IHC-P, ICC/IF
種交差性	交差種: Mouse, Human
免疫原	Synthetic peptide corresponding to Human ASK1 aa 1-100 (N terminal). (Peptide available as ab224650)
ポジティブ・コントロール	IHC-P: Human lung carcinoma tissue. WB: HeLa (ab150035), A549, and RAW 264.7 whole cell lysates. Flow Cyt (intra): HeLa cells. ICC/IF: RAW 264.7 cells.
特記事項	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production For more information see here . Rat: We have preliminary internal testing data to indicate this antibody may not react with this species. Please contact us for more information.

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. Avoid freeze / thaw cycle.
バッファー	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.5% BSA
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EP553Y

アプリケーション

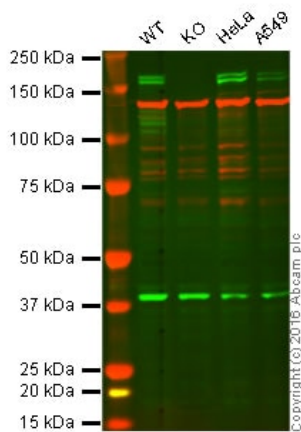
The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab45178の使用に適用されず**
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
Flow Cyt (Intra)		1/100. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB	★★★★★ (3)	1/1000. Detects a band of approximately 155 kDa (predicted molecular weight: 155 kDa). For unpurified use at 1/2000
IHC-P		1/50. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See <u>IHC antigen retrieval protocols</u> .
ICC/IF		1/100 - 1/250.

ターゲット情報

機能	Component of a protein kinase signal transduction cascade. Phosphorylates and activates MAP2K4 and MAP2K6, which in turn activate the JNK and p38 MAP kinases, respectively. Overexpression induces apoptotic cell death.
組織特異性	Abundantly expressed in heart and pancreas.
配列類似性	Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. MAP kinase kinase subfamily. Contains 1 protein kinase domain.
翻訳後修飾	Dephosphorylated and activated by PGAM5.

画像



Western blot - Anti-ASK1 antibody [EP553Y] (ab45178)

Lane 1: Wild-type HAP1 cell lysate (20 µg)

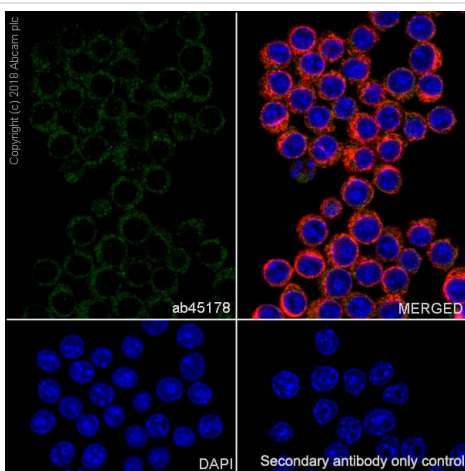
Lane 2: ASK1 knockout HAP1 cell lysate (20 µg)

Lane 3: HeLa cell lysate (20 µg)

Lane 4: A549 cell lysate (20 µg)

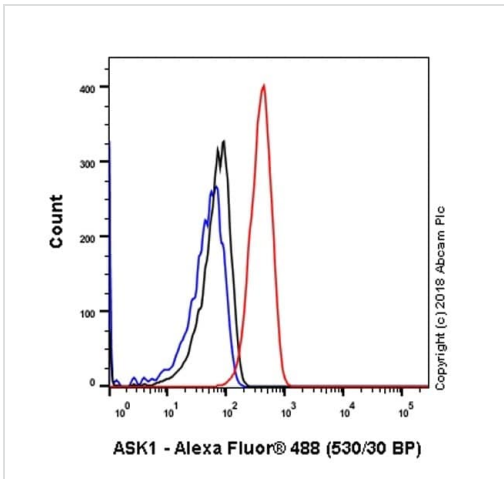
Lanes 1 - 4: Merged signal (red and green). Green - ab45178 observed at 155, 160 kDa. Red - loading control, **ab1240**, observed at 124 kDa.

Unpurified ab45178 was shown to recognize ASK1 when ASK1 knockout samples were used, along with additional cross-reactive bands. Wild-type and ASK1 knockout samples were subjected to SDS-PAGE. ab45178 and **ab1240** (loading control to Vinculin) were diluted to 1/2000 and 1/10000 respectively and incubated overnight at 4°C. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.



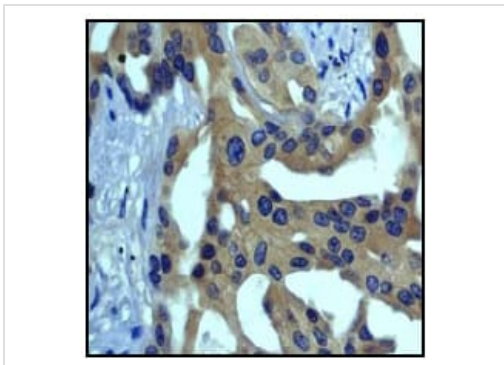
Immunocytochemistry/ Immunofluorescence - Anti-ASK1 antibody [EP553Y] (ab45178)

Immunocytochemistry/ Immunofluorescence analysis of RAW 264.7 (Mouse Abelson murine leukemia virus-induced tumor macrophage) cells labeling ASK1 with Purified ab45178 at 1:100 (9.9 µg/ml). Cells were fixed in 100% Methanol. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1:200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1:1000 (2 µg/ml) dilution. DAPI nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Intracellular Flow Cytometry analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling ASK1 with purified ab45178 at 1/100 dilution (10 µg/ml) (red). Cells were fixed with 4% Paraformaldehyde. A Goat anti rabbit IgG (Alexa Fluor® 488) secondary antibody was used at 1/2000 dilution. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).

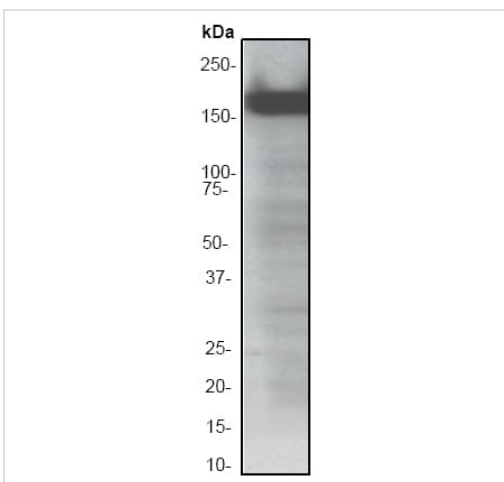
Flow Cytometry (Intracellular) - Anti-ASK1 antibody [EP553Y] (ab45178)



Unpurified ab45178 (1/10) staining human ASK1 in human lung carcinoma by immunohistochemistry using paraffin embedded tissue.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ASK1 antibody [EP553Y] (ab45178)



Anti-ASK1 antibody [EP553Y] (ab45178) at 1/2000 dilution (Unpurified) + HeLa cell lysate at 10 µg

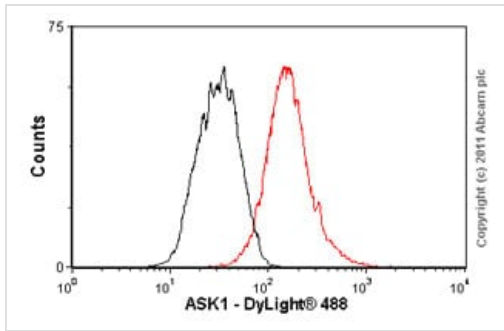
Secondary

Goat anti-rabbit, HRP labelled at 1/2000 dilution

Predicted band size: 155 kDa

Observed band size: 155 kDa

Western blot - Anti-ASK1 antibody [EP553Y] (ab45178)



Flow Cytometry (Intracellular) - Anti-ASK1 antibody [EP553Y] (ab45178)

Overlay histogram showing HeLa cells stained with unpurified ab45178 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab45178, 1/100 dilution) for 30 min at 22°C. The secondary antibody used was a goat anti-rabbit DyLight® 488 (IgG H+L) ([ab96899](#)) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (1µg/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed.

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

Anti-ASK1 antibody [EP553Y] (ab45178)

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