

Anti-DUSP6 antibody [EPR129Y] ab76310

KO 評価済 リコンビナント RabMAb

★★★★★ 16 Abreviews 52 References 画像数 13

製品の概要

製品名	Anti-DUSP6 antibody [EPR129Y]
製品の詳細	Rabbit monoclonal [EPR129Y] to DUSP6
由来種	Rabbit
アプリケーション	適用あり: IHC-P, Flow Cyt (Intra), WB, IP 適用なし: ICC/IF
種交差性	交差種: Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: 3T3, and A431 cell lysates; IHC-P: Human gastric carcinoma and human pancreas tissues; IHC-Fr: Mouse brain tissue; Flow Cyt (intra): NIH-3T3 and HeLa cells; IP: NIH-3T3 cells.
特記事項	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <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 <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</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). 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, 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	EPR129Y

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ab76310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。

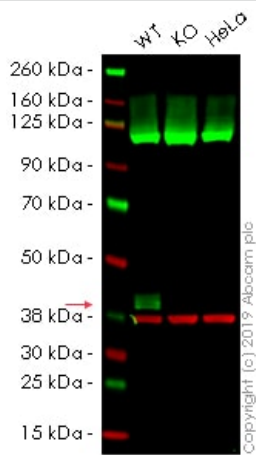
アプリケーション	Abreviews	特記事項
IHC-P	★★★★★ (1)	1/50 - 1/100. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
Flow Cyt (Intra)		1/20 - 1/200. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB	★★★★★ (8)	1/500 - 1/1000. Detects a band of approximately 42,44 kDa (predicted molecular weight: 42 kDa).
IP	★★★★★ (2)	1/40 - 1/50.

追加情報 Is unsuitable for ICC/IF.

ターゲット情報

機能	Inactivates MAP kinases. Has a specificity for the ERK family.
配列類似性	Belongs to the protein-tyrosine phosphatase family. Non-receptor class dual specificity subfamily. Contains 1 rhodanese domain. Contains 1 tyrosine-protein phosphatase domain.
細胞内局在	Cytoplasm.

画像



Western blot - Anti-DUSP6 antibody [EPR129Y]
(ab76310)

All lanes : Anti-DUSP6 antibody [EPR129Y] (ab76310) at 1/500 dilution

Lane 1 : Wild-type A-431 (Human epidermoid carcinoma cell line) whole cell lysate

Lane 2 : DUSP6 knockout A-431 (Human epidermoid carcinoma cell line) whole cell lysate

Lane 3 : HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate

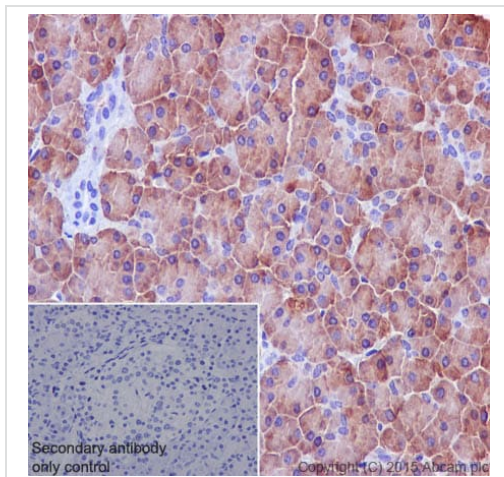
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 42 kDa

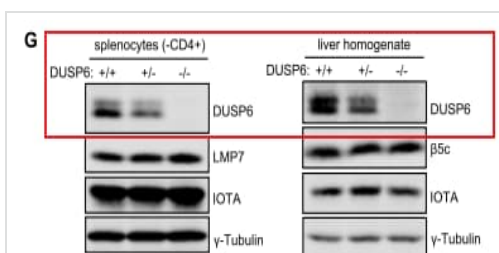
Lanes 1 - 3: Merged signal (red and green). Green - ab76310 observed at 42 kDa. Red - loading control, **ab130007**, observed at 130 kDa.

ab76310 was shown to recognize in wild-type A431 cells as signal was lost at the expected MW in DUSP6 knockout cells. Additional cross-reactive bands were observed in the wild-type and knockout cells. Wild-type and DUSP6 knockout samples were subjected to SDS-PAGE. The membrane was blocked with 3% Milk. Ab76310 and **ab130007** (Mouse anti-Vinculin loading control) were incubated overnight at 4°C at 1/500 dilution and 1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed **ab216776** secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DUSP6 antibody [EPR129Y] (ab76310)

Immunohistochemical staining of paraffin embedded human pancreas with purified ab76310 at a working dilution of 1/100. The secondary antibody used is HRP goat anti-rabbit IgG H&L ([ab97051](#)) at 1/500. The sample is counter-stained with hematoxylin. Antigen retrieval was performed using Tris-EDTA buffer, pH 9.0. PBS was used instead of the primary antibody as the negative control, and is shown in the inset.



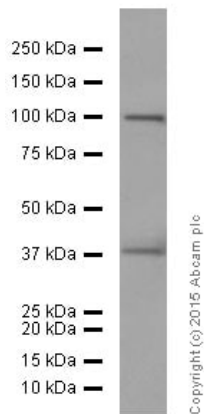
Schmidt et al., 2018, Figure S6

Western blot - Anti-DUSP6 antibody [EPR129Y] (ab76310)

Schmidt C et al., Front Immunol, 9, 2386, 2018
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Immunoblot analysis of indicated proteins in splenocytes after CD4+ sort, liver homogenate or purified CD4+ T cells from WT, DUSP6+/- or DUSP6-/- mice to confirm knockout or heterozygosity for DUSP6 at protein level.

This image was generated using [ab220811](#), the same antibody but in a PBS-only buffer formulation.



Western blot - Anti-DUSP6 antibody [EPR129Y]
(ab76310)

Anti-DUSP6 antibody [EPR129Y] (ab76310) at 1/5000 dilution
(purified) + HepG2 cell lysate at 20 µg

Secondary

HRP goat anti-rabbit IgG (H+L) at 1/50000 dilution

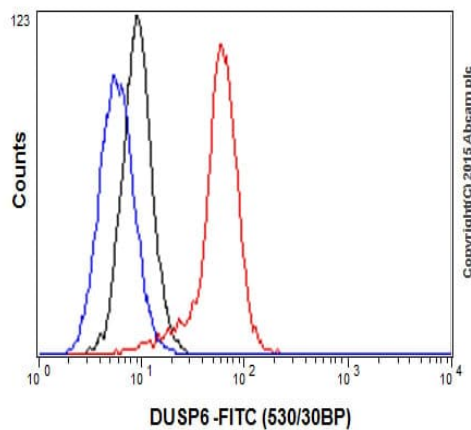
Predicted band size: 42 kDa

Observed band size: 42,44 kDa

Blocking buffer: 5% NFDM/TBST

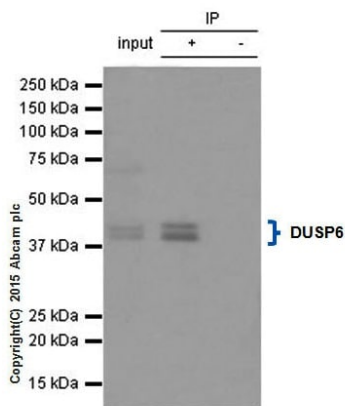
Dilution buffer: 5% NFDM/TBST

ab76310 detects an unspecific band around 100 kDa in human materials.

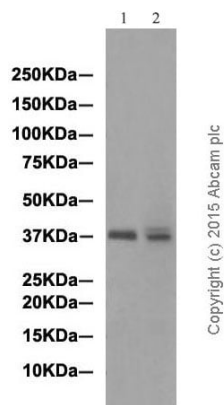


Flow Cytometry (Intracellular) - Anti-DUSP6 antibody
[EPR129Y] (ab76310)

Overlay histogram showing NIH-3T3 cells fixed in 4% PFA and stained with purified ab76310 at a dilution of 1 in 200 (red line). The secondary antibody used was FITC goat anti-rabbit at a dilution of 1 in 500. Rabbit monoclonal IgG was used as an isotype control (black line) and cells incubated in the absence of both primary and secondary antibody were used as a negative control (blue line).



Immunoprecipitation - Anti-DUSP6 antibody
[EPR129Y] (ab76310)



Western blot - Anti-DUSP6 antibody [EPR129Y]
(ab76310)

ab76310 (purified) at 1/20 immunoprecipitating DUSP6 in 10 µg NIH-3T3 (Lanes 1 and 2, observed at 42 and 44 kDa). Lane 3 - PBS. For western blotting, a HRP-conjugated anti-rabbit IgG, specific to the non-reduced form of IgG was used as the secondary antibody (1/1500). Blocking buffer and concentration: 5% NFDM/TBST Dilution buffer and concentration: 5% NFDM/TBST

All lanes : Anti-DUSP6 antibody [EPR129Y] (ab76310) at 1/1000 dilution (purified)

Lane 1 : rat brain lysate

Lane 2 : NIH/3T3 cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

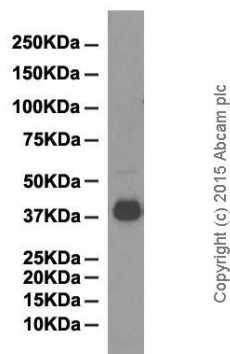
All lanes : HRP goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 42 kDa

Observed band size: 42,44 kDa

Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



Western blot - Anti-DUSP6 antibody [EPR129Y]
(ab76310)

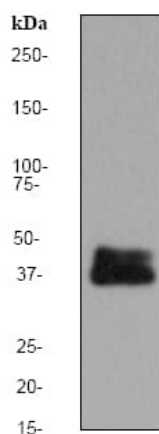
Anti-DUSP6 antibody [EPR129Y] (ab76310) at 1/1000 dilution
(purified) + mouse brain at 10 µg

Secondary

HRP goat anti-rabbit IgG (H+L) at 1/50000 dilution

Predicted band size: 42 kDa

Observed band size: 42,44 kDa



Western blot - Anti-DUSP6 antibody [EPR129Y]
(ab76310)

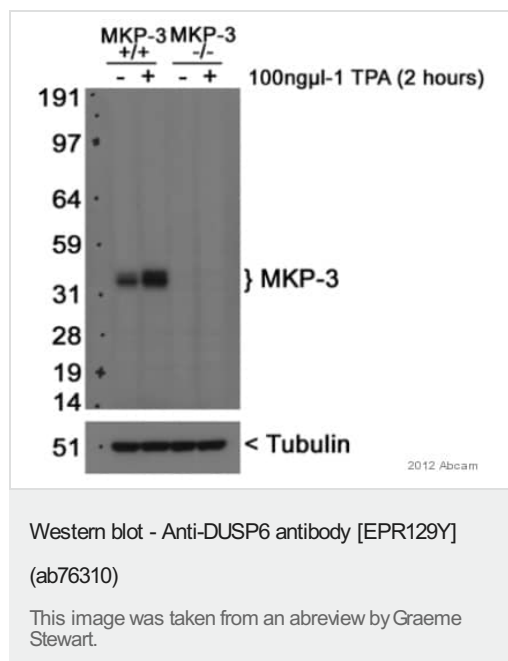
Anti-DUSP6 antibody [EPR129Y] (ab76310) at 1/500 dilution
(unpurified) + 3T3 cell lysate at 10 µg

Secondary

HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 42 kDa

Observed band size: 42,44 kDa



All lanes : Anti-DUSP6 antibody [EPR129Y] (ab76310) at 1/4000 dilution (unpurified)

Lane 1 : Marker

Lane 2 : Lysate from wild type primary murine embryonic fibroblasts (MEFs) untreated at 10 μ g

Lane 3 : Lysate from wild type primary murine embryonic fibroblasts (MEFs) treated with 100ng/ml-1, 12-O-tetradecanoylphorbol-13-acetate (TPA) for 2 hours at 10 μ g

Lane 4 : Lysate from MKP-3 null primary murine embryonic fibroblasts (MEFs) untreated at 10 μ g

Lane 5 : Lysate from MKP-3 null primary murine embryonic fibroblasts (MEFs) treated with 100ng/ml-1, 12-O-tetradecanoylphorbol-13-acetate (TPA) for 2 hours at 10 μ g

Secondary

All lanes : Goat anti Rabbit HRP conjugate at 1/10000 dilution

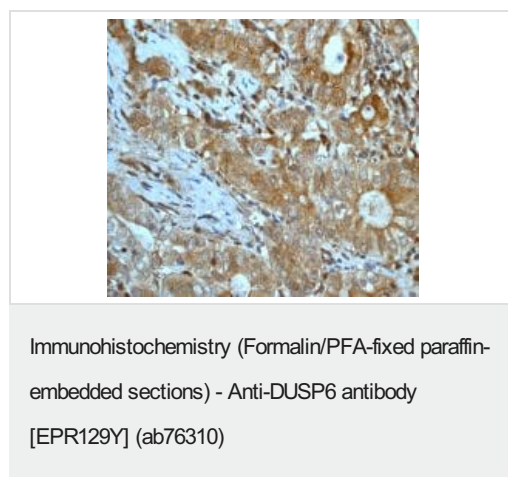
Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 42 kDa

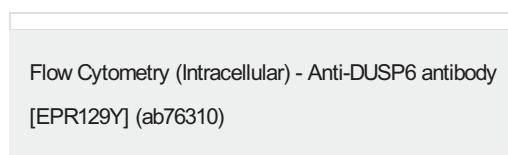
Observed band size: 42 kDa

Exposure time: 2 minutes



Immunohistochemical staining of paraffin-embedded human gastric carcinoma using unpurified ab76310 at 1/50 dilution.





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



Overlay histogram showing HeLa cells stained with unpurified ab76310 (red line). The cells were fixed with 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 (ab76310, 1/20 dilution) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-rabbit IgG (H+L) (**ab96899**) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit monoclonal IgG (1µg/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in HeLa cells fixed with 4% paraformaldehyde/permeabilized with 0.1% PBS-Tween 20 used under the same conditions.

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-DUSP6 antibody [EPR129Y] (ab76310)

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