


Product datasheet

Anti-DUSP5 antibody [EPR19684] ab200708

KO VALIDATED Recombinant RabMAb

★★★★★ [1 Abreviews](#) [20 References](#) [6 Images](#)

Overview

Product name	Anti-DUSP5 antibody [EPR19684]
Description	Rabbit monoclonal [EPR19684] to DUSP5
Host species	Rabbit
Specificity	Due to low expression levels, treatment with growth factors may be necessary to induce the expression of DUSP5 in certain cell lines.
Tested applications	Suitable for: ICC/IF, WB
Species reactivity	Reacts with: Mouse, Human, Recombinant fragment Predicted to work with: Non human primates 
Immunogen	Recombinant full length protein. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Human DUSP5 full length recombinant protein; Mouse DUSP5 full length recombinant protein; MEF (WT) whole cell lysate from MEFs serum starved and then treated for 2h with 20% FCS. ICC/IF: Wild-type MEF cells serum starved and then treated for 2h with 20% FCS.
General notes	<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>

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified

Clonality	Monoclonal
Clone number	EPR19684
Isotype	IgG

Applications

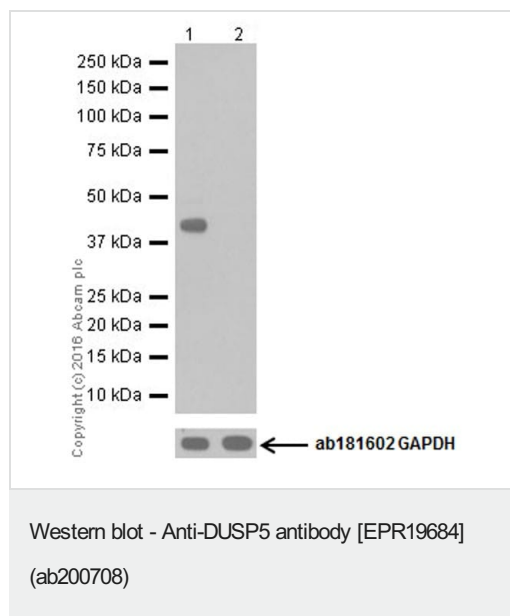
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab200708 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		1/100. Please note, this antibody worked well in ICC/IF on 100% methanol fixed cells but not on 4% PFA fixed cells.
WB	★★★★★ (1)	1/1000. Detects a band of approximately 42 kDa (predicted molecular weight: 42 kDa). Milk recommended as blocking agent.

Target

Function	Displays phosphatase activity toward several substrates. The highest relative activity is toward ERK1.
Sequence similarities	Belongs to the protein-tyrosine phosphatase family. Non-receptor class dual specificity subfamily. Contains 1 rhodanese domain. Contains 1 tyrosine-protein phosphatase domain.
Cellular localization	Nucleus.

Images



All lanes : Anti-DUSP5 antibody [EPR19684] (ab200708) at 1/1000 dilution

Lane 1 : MEF (Mouse embryonic fibroblast cell line) (WT) whole cell lysate

Lane 2 : MEF (Mouse embryonic fibroblast cell line) (DUSP5 KO) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Predicted band size: 42 kDa

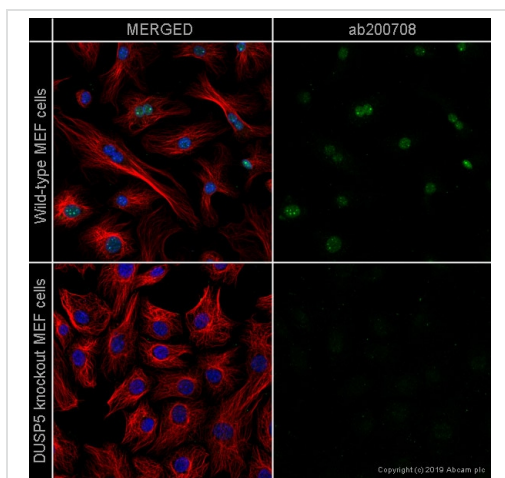
Observed band size: 42 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.

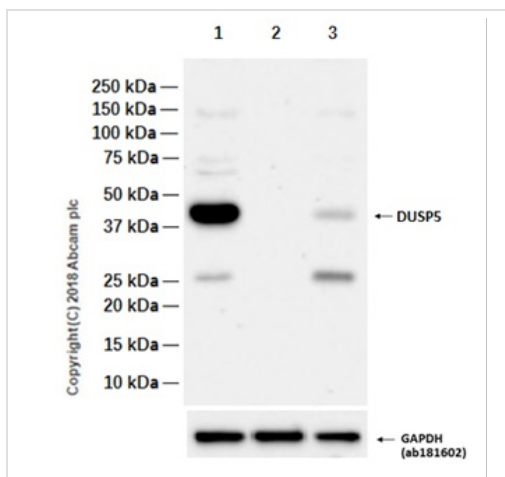
MEF Wt and DUSP5 KO whole cell lysates used on this blot are from MEFs serum starved and then treated for 2h with 20% FCS.

These lysates were kindly provided by Steve Keyes from Dundee University.



Immunocytochemistry/ Immunofluorescence - Anti-DUSP5 antibody [EPR19684] (ab200708)

Ab200708 staining DUSP5 in wild-type MEF cells serum starved and then treated for 2h with 20% FCS (top panel) and DUSP5 knockout MEF cells serum starved and then treated for 2h with 20% FCS (bottom panel). The cells were fixed with 100% methanol for 5 minutes, permeabilized with 0.1% Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1 hour. The cells were then incubated with ab200708 at 1/100 dilution and anti-alpha Tubulin antibody [ab7291](#) at 1/1000 dilution (shown in pseudo colour red) overnight at +4°C, followed by a further incubation at room temperature for 1 hour with Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed ([ab150081](#)) secondary antibody and Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) preadsorbed ([ab150120](#)) at 2 µg/ml. Nuclear DNA was labelled in blue with DAPI.



Western blot - Anti-DUSP5 antibody [EPR19684] (ab200708)

All lanes : Anti-DUSP5 antibody [EPR19684] (ab200708) at 1/1000 dilution

Lane 1 : HCT 116 (Human colorectal carcinoma epithelial cell) whole cell lysate with 5% NFDM/TBST

Lane 2 : Untreated MCF7 (Human breast adenocarcinoma epithelial cell) whole cell lysate with 5% NFDM/TBST

Lane 3 : MCF7 (Human breast adenocarcinoma epithelial cell) treated with 100 ng/ml PMA for 48 hours whole cell lysate with 5% NFDM/TBST

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

Predicted band size: 42 kDa

Observed band size: 42 kDa

Exposure time: 3 minutes

Anti-DUSP5 antibody [EPR19684] (ab200708) at 1/5000 dilution +
Human DUSP5 full length recombinant protein at 0.01 µg

Secondary

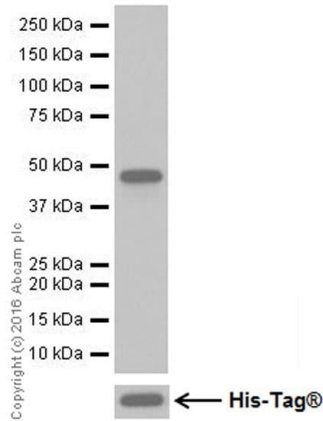
Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

Predicted band size: 42 kDa

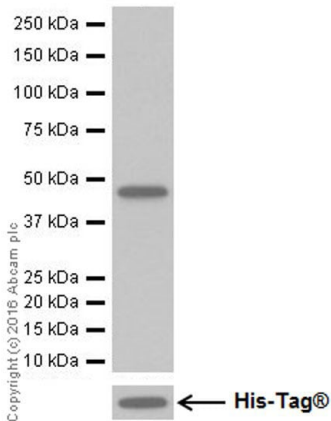
Exposure time: 8 seconds

Blocking/Dilution buffer: 5% NFDM/TBST.

Human DUSP5 full length recombinant protein contain aa1-384 with
a His-Tag®. This recombinant human full length protein was made
in-house.



Western blot - Anti-DUSP5 antibody [EPR19684]
(ab200708)



Western blot - Anti-DUSP5 antibody [EPR19684]
(ab200708)

Anti-DUSP5 antibody [EPR19684] (ab200708) at 1/1000 dilution +
Mouse DUSP5 full length recombinant protein at 0.01 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

Predicted band size: 42 kDa

Exposure time: 4 seconds

Blocking/Dilution buffer: 5% NFDM/TBST.

Mouse DUSP5 full length recombinant protein contain aa1-384 with
a His-Tag®. This recombinant mouse full length protein was made
in-house.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-DUSP5 antibody [EPR19684] (ab200708)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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