abcam

Product datasheet

Anti-MEK1 (phospho S298) antibody [EPR3338] ab96379

重组 RabMAb

★★★★★ 6 Abreviews 57 References 7 图像

概述

产品名称	Anti-MEK1 (phospho S298)抗体[EPR3338]
描述	兔单克隆抗体[EPR3338] to MEK1 (phospho S298)
宿主	Rabbit
特异性	ab96379 detects MEK1 phosphorylated at threonine 298. The mouse and rat recommendation is based on the WB results. We do not guarantee IHC-P for mouse and rat.
经测试应用	**适用于:** IHC-P, Flow Cyt (Intra), ICC/IF, WB **不适用于:** IP
种属反应性	**与反应:** Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	Flow Cyt (intra): HeLa cells; ICC/IF: HeLa cells; IHC-P: Human ovarian carcinoma tissue; WB; Rat and mouse skeletal muscle, HeLa cells.
常规说明	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**.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
纯度	Protein A purified

克隆	单克隆
克隆编号	EPR3338
同种型	IgG

应用

The Abpromise guarantee Abpromise™承诺保证使用ab96379于以下的经测试应用

"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
IHC-P		1/50. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. The mouse and rat recommendation is based on the WB results. We do not guarantee IHC-P for mouse and rat. For unpurified use at 1/100 - 1/250 dilution.
Flow Cyt (Intra)		1/100.
ICC/IF	★★★★★ (3)	1/100 - 1/250.
WB	★★★★★ (3)	1/1000 - 1/5000. Detects a band of approximately 45 kDa (predicted molecular weight: 43 kDa).

应用说明 Is unsuitable for IP.

靶标

功能 Catalyzes the concomitant phosphorylation of a threonine and a tyrosine residue in a Thr-Glu-Tyr sequence located in MAP kinases. Activates ERK1 and ERK2 MAP kinases.

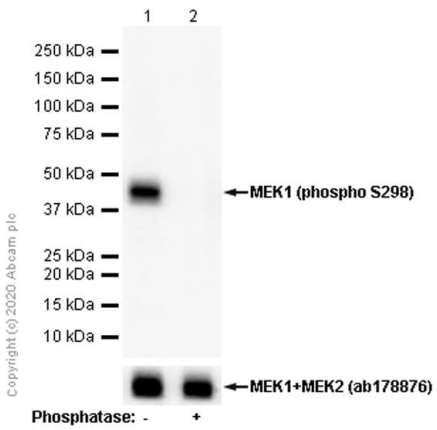
组织特异性 Widely expressed, with extremely low levels in brain.

疾病相关 Defects in MAP2K1 are a cause of cardiofaciocutaneous syndrome (CFC syndrome) [MIM:115150]; also known as cardio-facio-cutaneous syndrome. CFC syndrome is characterized by a distinctive facial appearance, heart defects and mental retardation. Heart defects include pulmonic stenosis, atrial septal defects and hypertrophic cardiomyopathy. Some affected individuals present with ectodermal abnormalities such as sparse, friable hair, hyperkeratotic skin lesions and a generalized ichthyosis-like condition. Typical facial features are similar to Noonan syndrome. They include high forehead with bitemporal constriction, hypoplastic supraorbital ridges, downslanting palpebral fissures, a depressed nasal bridge, and posteriorly angulated ears with prominent helices. The inheritance of CFC syndrome is autosomal dominant.

序列相似性 Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. MAP kinase kinase subfamily.
Contains 1 protein kinase domain.

翻译后修饰 Phosphorylation on Ser/Thr by MAP kinase kinase kinases (RAF or MEKK1) regulates positively the kinase activity.
Acetylation by Yersinia yopJ prevents phosphorylation and activation, thus blocking the MAPK signaling pathway.

图片



Western blot - Anti-MEK1 (phospho S298) antibody [EPR3338] (ab96379)

All lanes : Anti-MEK1 (phospho S298) antibody [EPR3338] (ab96379) at 1/1000 dilution (Purified)

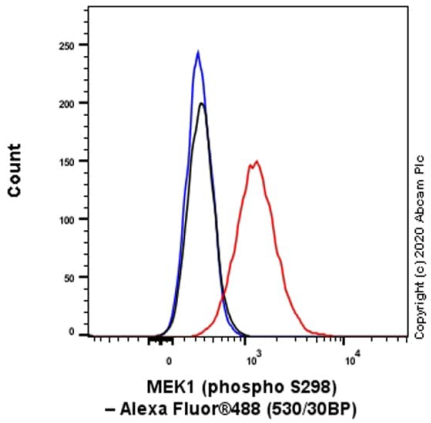
Lane 1 : Rat skeletal muscle lysate

Lane 2 : Rat skeletal muscle lysate, the membrane treated with phosphatase for 1 hour

Secondary

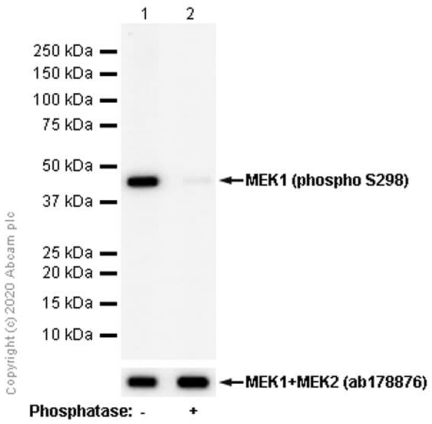
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 43 kDa



Flow Cytometry (Intracellular) - Anti-MEK1 (phospho S298) antibody [EPR3338] (ab96379)

Intracellular Flow Cytometry analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling MEK1 with Purified ab96379 at 1/100 dilution (10 µg/mL) (Red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).



Western blot - Anti-MEK1 (phospho S298) antibody [EPR3338] (ab96379)

All lanes : Anti-MEK1 (phospho S298) antibody [EPR3338] (ab96379) at 1/1000 dilution (Purified)

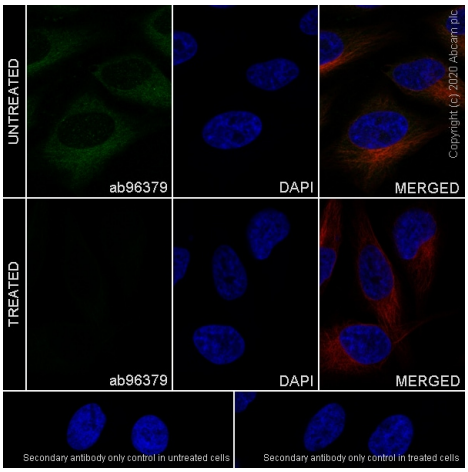
Lane 1 : Mouse skeletal muscle lysate

Lane 2 : Mouse skeletal muscle lysate, the membrane treated with phosphatase for 1 hour

Secondary

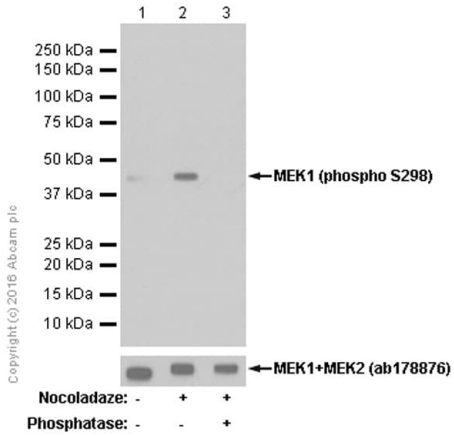
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 43 kDa



Immunocytochemistry/ Immunofluorescence - Anti-MEK1 (phospho S298) antibody [EPR3338] (ab96379)

Immunocytochemistry analysis of HeLa (Human cervix adenocarcinoma epithelial cell) treated with lambda phosphatase cells labeling MEK1 with Purified ab96379 at 1/100 dilution (9.53 µg/mL). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 dilution (2.5 µg/mL). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1/1000 dilution (2 µg/mL). DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



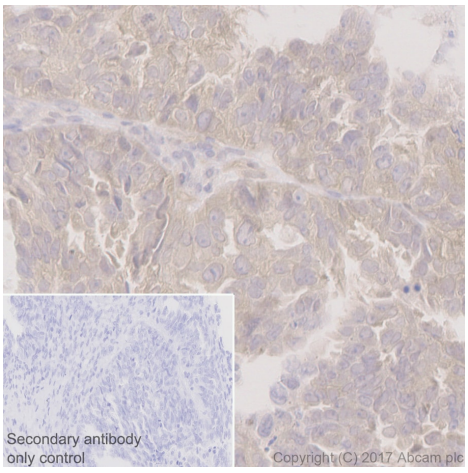
Western blot - Anti-MEK1 (phospho S298) antibody [EPR3338] (ab96379)

All lanes : Anti-MEK1 (phospho S298) antibody [EPR3338] (ab96379) at 1/1000 dilution (Purified)

Lane 1 : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate
Lane 2 : HeLa (Human cervix adenocarcinoma epithelial cell) treated with 100 ng/ml nocoladaze for 18 hours whole cell lysate
Lane 3 : HeLa (Human cervix adenocarcinoma epithelial cell) treated with 100ng/ml nocoladaze for 18 hours, then the membrane treated with phosphatase for 1 hour

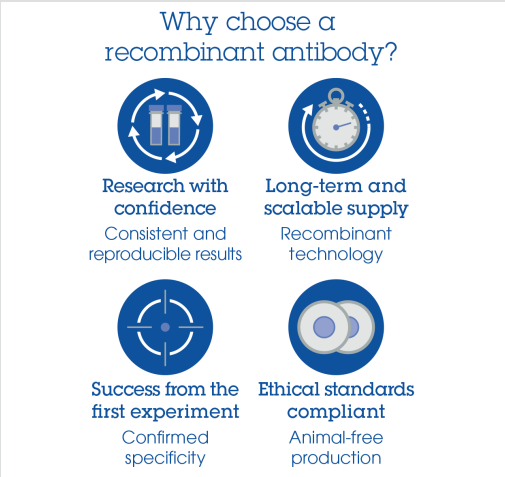
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 43 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MEK1 (phospho S298) antibody [EPR3338] (ab96379)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human ovarian carcinoma tissue sections labeling MEK1 with Purified ab96379 at 1/50 dilution (19.06 µg/mL). Perform heat mediated antigen retrieval using **ab93684** (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Anti-MEK1 (phospho S298) antibody [EPR3338]

(ab96379)

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