

Product datasheet

Anti-MEK1 antibody [E342] ab32091

敲除验证
重组
RabMAb

★★★★★
[5 Abreviews](#)
[6 References](#)
[5 图像](#)

概述

产品名称	Anti-MEK1抗体[E342]
描述	兔单克隆抗体[E342] to MEK1
特异性	This antibody recognises MEK1, but does not cross react with other MAP kinase kinase family members.
经测试应用	适用于: IHC-Fr, WB, IHC-P, ICC/IF, Flow Cyt, IP
种属反应性	与反应: Mouse, Rat, Cow, Dog, Human
免疫原	Synthetic peptide (the amino acid sequence is considered to be commercially sensitive) within Human MEK1 aa 1-100 (N terminal). The exact sequence is proprietary. Database link: Q02750
阳性对照	WB: A431 cells and cell lysate. IHC-P: Human cervical carcinoma. ICC/IF: HeLa cells.
常规说明	<p>This product is a recombinant rabbit monoclonal antibody.</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>

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	PBS 49%,Sodium azide 0.01%,Glycerol 50%,BSA 0.05%
克隆	单克隆
克隆编号	E342
同种型	IgG

应用

Our [Abpromise guarantee](#) covers the use of **ab32091** in the following tested applications.

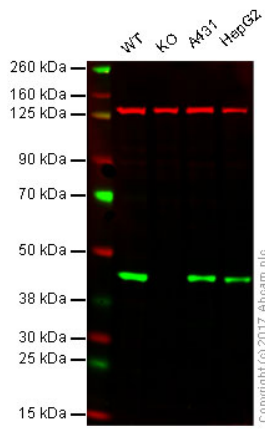
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab评论	说明
IHC-Fr	★★★★★	1/400.
WB	★★★★★	1/1000 - 1/5000. Detects a band of approximately 45 kDa (predicted molecular weight: 43 kDa).
IHC-P		Use at an assay dependent concentration.
ICC/IF		1/100 - 1/500.
Flow Cyt		1/100. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
IP		1/200.

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 antibody [E342]
(ab32091)

Predicted band size : 43 kDa

Lane 1: Wild-type HAP1 whole cell lysate (20 μ g)

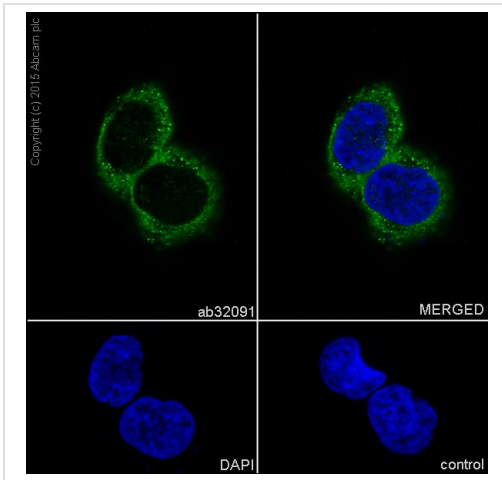
Lane 2: MEK1 knockout HAP1 whole cell lysate (20 μ g)

Lane 3: A431 whole cell lysate (20 μ g)

Lane 4: HepG2 whole cell lysate (20 μ g)

Lanes 1 - 4: Merged signal (red and green).
Green - ab32091 observed at 43 kDa. Red - loading control, ab18058, observed at 130 kDa.

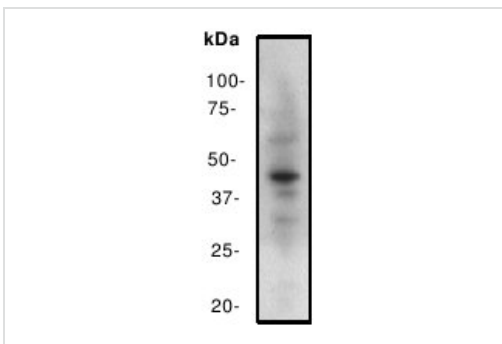
ab32091 was shown to specifically react with MEK1 in wild-type HAP1 cells as signal was lost in MEK1 knockout cells. Wild-type and MEK1 knockout samples were subjected to SDS-PAGE. Ab32091 and ab18058 (Mouse anti-Vinculin loading control) were incubated overnight at 4°C at 1/1000 dilution and 1/20000 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.



Immunocytochemistry/ Immunofluorescence - Anti-MEK1 antibody [E342] (ab32091)

Immunocytochemistry/Immunofluorescence analysis of HeLa cells labelling MEK1 with purified ab32091 at dilution of 1/500. Cells were fixed with 4% Paraformaldehyde and permeabilized with 0.1% Triton X-100. ab150077, Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/1000) was used as the secondary antibody. Nuclei were counterstained with DAPI (blue).

Secondary Only Control: PBS was used instead of the primary antibody as the negative control.

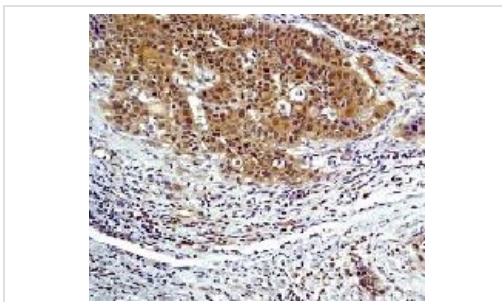


Western blot - MEK1 antibody [E342] (ab32091)

Anti-MEK1 antibody [E342] (ab32091) at 1/5000 dilution + A431 cell lysate

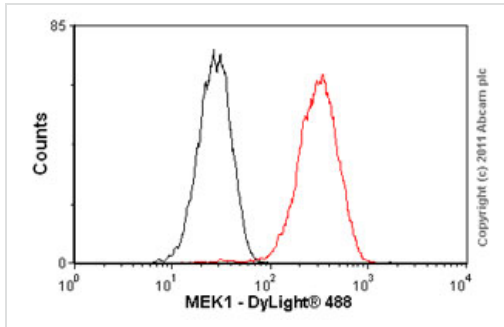
Predicted band size : 43 kDa

Observed band size : 45 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MEK1 antibody [E342] (ab32091)

Ab32091, at a 1/100 dilution, staining MEK1 in paraffin embedded human cervical carcinoma tissue by Immunohistochemistry.



Flow Cytometry - MEK1 antibody [E342] (ab32091)

Overlay histogram showing HeLa cells stained with ab32091 (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 (ab32091, 1/100 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 IgG (monoclonal) (1µg/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed.

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