abcam

Product datasheet

Anti-MEK1 (phospho T286) antibody ab129457

1 References 3 Images

Overview

Product name	Anti-MEK1 (phospho T286) antibody
Description	Goat polyclonal to MEK1 (phospho T286)
Host species	Goat
Tested applications	**Suitable for:** IP, IHC-P
Species reactivity	**Reacts with:** Mouse, Human **Predicted to work with:** Rat, Rabbit, Horse, Cow, Pig, Chimpanzee, Ferret, Rhesus monkey, Gorilla, Chinese hamster, Elephant
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	HeLa whole cell lysates
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7 Preservative: 0.09% Sodium azide Constituent: 99% Tris citrate/phosphate pH 7 to 8
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab129457 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
IP		Use at 2-10 µg/mg of lysate.
IHC-P		1/200 - 1/1000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Target

Function 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.

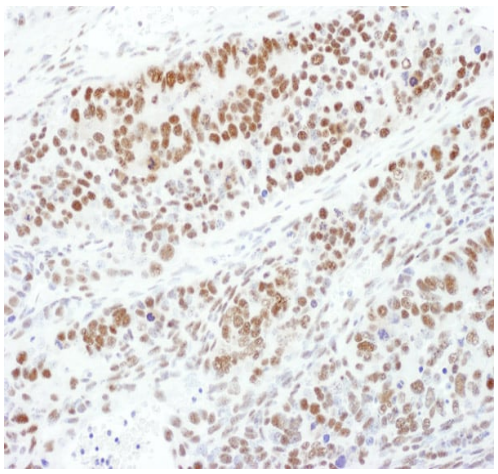
Tissue specificity Widely expressed, with extremely low levels in brain.

Involvement in disease 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.

Sequence similarities Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. MAP kinase kinase subfamily.
Contains 1 protein kinase domain.

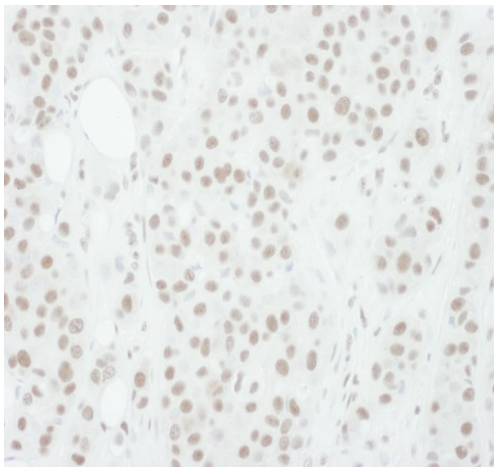
Post-translational modifications Phosphorylation on Ser/Thr by MAP kinase kinase kinases (RAF or MEKK1) regulates positively the kinase activity.
Acetylation by Yersinia yopJ prevents phosphorylation and activation, thus blocking the MAPK signaling pathway.

Images



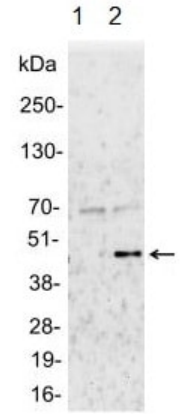
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MEK1 (phospho T286) antibody (ab129457)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse teratoma tissue labelling MEK1 (phospho T286) with ab129457 at 1/1000 (1µg/ml). Detection: DAB.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MEK1 (phospho T286) antibody (ab129457)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human breast carcinoma tissue labelling MEK1 (phospho T286) with ab129457 at 1/1000 (1µg/ml). Detection: DAB.



Immunoprecipitation - Anti-MEK1 (phospho T286) antibody (ab129457)

ab129457, at 6µg/mg lysate (20% of IP loaded/lane), staining MEK1 in HeLa whole cell lysate mock treated (lane 1) or nocodazole treated (lane 2) by Immunoprecipitation.

Detection: Chemiluminescence with exposure time of 30 seconds.

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