


Product datasheet

Anti-MEK3 (phospho T222) antibody ab79586

[2 Images](#)

Overview

Product name	Anti-MEK3 (phospho T222) antibody
Description	Rabbit polyclonal to MEK3 (phospho T222)
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Synthetic peptide corresponding to Human MEK3 (phospho T222).
General notes	<p>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.</p> <p>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</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: PBS, 50% Glycerol (glycerin, glycerine), 0.87% Sodium chloride Without Mg ²⁺ and Ca ²⁺
Purity	Immunogen affinity purified
Purification notes	ab79586 was affinity purified from rabbit antiserum by affinity chromatography using epitope specific phosphopeptide. The antibody against non phosphopeptide was removed by chromatography using non phosphopeptide corresponding to the phosphorylation site.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab79586 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
WB		1/500 - 1/1000. Predicted molecular weight: 39 kDa.
IHC-P		1/50 - 1/100.

Target

Function

Dual specificity kinase. Is activated by cytokines and environmental stress in vivo. Catalyzes the concomitant phosphorylation of a threonine and a tyrosine residue in the MAP kinase p38.

Tissue specificity

Abundant expression is seen in the skeletal muscle. It is also widely expressed in other tissues.

Involvement in disease

Note=Defects in MAP2K3 may be involved in colon cancer.

Sequence similarities

Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. MAP kinase kinase subfamily.

Contains 1 protein kinase domain.

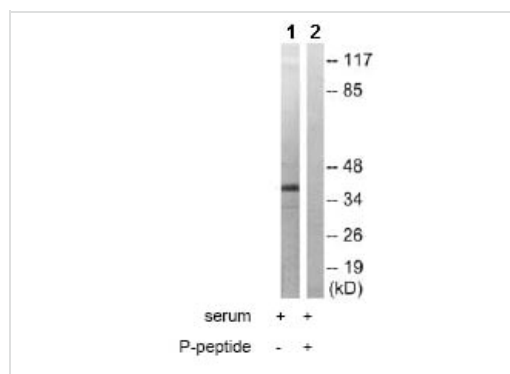
Post-translational modifications

Autophosphorylated.

Phosphorylation on Ser-218 and Thr-222 by MAP kinase kinase kinases regulates positively the kinase activity.

Yersinia yopJ may acetylate Ser/Thr residues, preventing phosphorylation and activation, thus blocking the MAPK signaling pathway.

Images



Western blot - Anti-MEK3 (phospho T222) antibody (ab79586)

All lanes : Anti-MEK3 (phospho T222) antibody (ab79586) at 1/500 dilution

Lane 1 : Jurkat cell extracts treated with serum (20 %, 15 minutes)

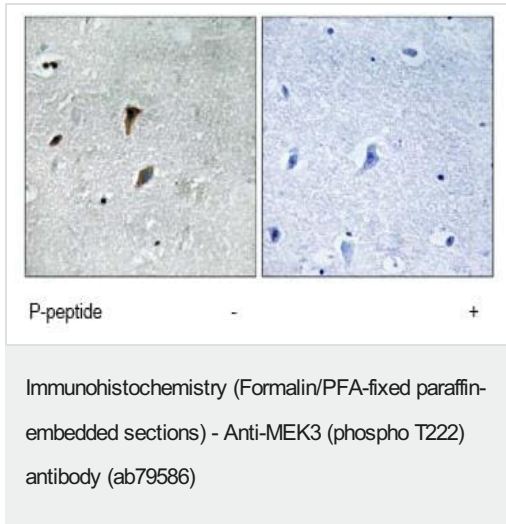
Lane 2 : Jurkat cell extracts treated with serum (20 %, 15 minutes) with immunizing peptide at 10 µg

Lysates/proteins at 30 µg per lane.

Predicted band size: 39 kDa

Observed band size: 39 kDa

Additional bands at: 32 kDa. We are unsure as to the identity of these extra bands.



ab79586, at a 1/50 dilution, staining MEK3 in paraffin embedded human brain tissue by Immunohistochemistry in the absence (left image) or presence (right image) of the immunizing peptide.

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors