Product name: Anti-Erk1 (pT202/pY204) + Erk2 (pT185/pY187) antibody [MAPK-YT] ab50011

Description: Mouse monoclonal [MAPK-YT] to Erk1 (pT202/pY204) + Erk2 (pT185/pY187)

Host species: Mouse

Tested applications: Suitable for: ICC/IF, WB

Species reactivity: Reacts with: Rat, Saccharomyces cerevisiae, Drosophila melanogaster

Predicted to work with: Xenopus laevis, Zebrafish

Immunogen: Synthetic peptide corresponding to Erk1 (pT202/pY204) + Erk2 (pT185/pY187) conjugated to Keyhole Limpet Haemocyanin (KLH). Synthetic peptide corresponds to the phosphorylated form of human ERK1 and ERK2 activation loop.

Sequence: HTGFLpTEpYVAT

Epitope: The epitope recognized by ab50011 is located in the region of phosphorylated threonine and tyrosine residues within the regulatory site of active MAP kinase (Thr185 and Tyr187 in ERK-2).

Positive control: Rat brain extract, Drosophila wing imaginal disc.

General notes: This product was changed from ascites to tissue culture supernatant on 25th October 2016. The following lot is from ascites and is still in stock as of 25th October 2016 - GR185138. Lot numbers higher than GR185138 will be from tissue culture supernatant. Please note that the dilutions may need to be adjusted accordingly.

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.
Storage instructions
Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

Storage buffer
pH: 7.40
Preservative: 0.097% Sodium azide
Constituent: PBS

Purity
Proprietary Purification

Purification notes
Purified from tissue culture supernatant.

Clonality
Monoclonal

Clone number
MAPK-YT

Isotype
IgG1

Applications

The Abpromise guarantee
Our Abpromise guarantee covers the use of ab50011 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICC/IF</td>
<td>⭐⭐⭐⭐⭐ (2)</td>
<td>1/200.</td>
</tr>
<tr>
<td>WB</td>
<td>⭐⭐⭐⭐⭐ (8)</td>
<td>1/10000. Predicted molecular weight: 44 kDa.</td>
</tr>
</tbody>
</table>

Images

Lane 1: Anti-Erk1 (pT202/pY204) + Erk2 (pT185/pY187) antibody [MAPK-YT] (ab50011) at 1/10000 dilution
Lane 2: no primary antibody

All lanes: Extract of Rat1 cells activated with 100µM Vanadate+200µM H₂O₂

Secondary
All lanes: Goat Anti-Mouse IgG, AlkPhos Conjugate

Predicted band size: 44 kDa
Observed band size: 42, 44 kDa
Immunocytochemistry/ Immunofluorescence - Anti-
Erk1 (pT202/pY204) + Erk2 (pT185/pY187) antibody
[MAPK-YT] (ab50011)

In situ immunostaining of the activated form of MAP kinase with ab50011 (green) in Drosophila wing imaginal disc (500 micrometers long).

Immunocytochemistry/ Immunofluorescence - Anti-
Erk1 (pT202/pY204) + Erk2 (pT185/pY187) antibody
[MAPK-YT] (ab50011)

ICC/IF of NRK cells labeling the activated form of MAP kinase with ab50011 (1/1000 dilution). The antibody was developed using Goat Anti-Mouse IgG, Cy3™ conjugate. Cells were counterstained with DAPI (blue).

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.

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