

Product datasheet

Anti-Erk1 (pT202/pY204) + Erk2 (pT185/pY187) antibody [E337] ab32538

Recombinant RabMAb

14 References 5 Images

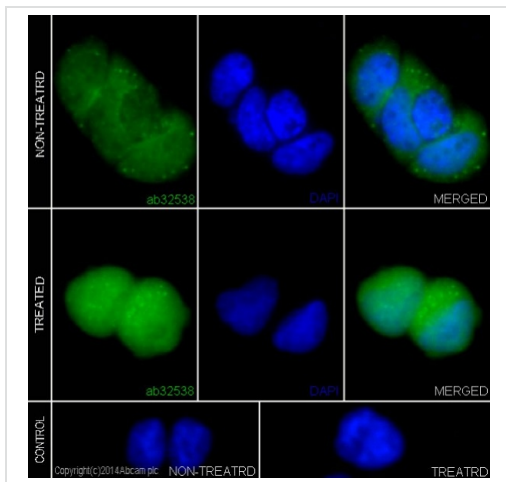
Overview

<b>Product name</b>	Anti-Erk1 (pT202/pY204) + Erk2 (pT185/pY187) antibody [E337]
<b>Description</b>	Rabbit monoclonal [E337] to Erk1 (pT202/pY204) + Erk2 (pT185/pY187)
<b>Host species</b>	Rabbit
<b>Specificity</b>	The antibody detects ERK1 phosphorylated on Threonine 202 and Tyrosine 204 and ERK2 phosphorylated on Threonine 185 and Tyrosine 187.
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P, Flow Cyt, ICC/IF <b>Unsuitable for:</b> IP
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide within Human Erk1 (pT202/pY204) + Erk2 (pT185/pY187). The exact sequence is proprietary. (Peptide available as <a href="#">ab205613</a> )
<b>Positive control</b>	WB: Serum starved A431 cell lysate treated with EGF. IHC-P: Human thyroid gland cancer tissue. ICC/IF: A431 cells +/- EGF.
<b>General notes</b>	Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.  Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMab<sup>®</sup> patents</a>  This product is a recombinant rabbit monoclonal antibody.

Properties

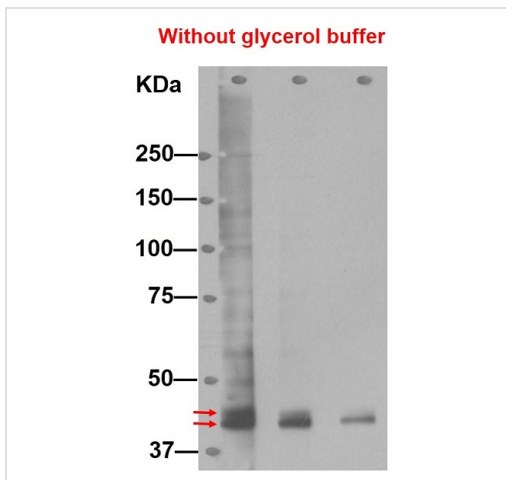
<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.01% Sodium azide Constituents: 50% Glycerol, 0.05% BSA
<b>Purity</b>	IgG fraction





Immunocytochemistry/ Immunofluorescence - Anti-Erk1 (pT202/pY204) + Erk2 (pT185/pY187) antibody [E337] (ab32538)

Immunocytochemistry/Immunofluorescence analysis of 4% paraformaldehyde A431+EGF(100ng/ml,5min) labelling Erk1 (pT202/pY204) + Erk2 (pT185/pY187) with ab32538 at dilution of 1/200. The secondary antibody used was Alexa Fluor® 488 Goat-Anti-Rabbit IgG (ab150077) at dilution of 1/400. The counter stain was done with DAPI (blue).



Western blot - Anti-Erk1 (pT202/pY204) + Erk2 (pT185/pY187) antibody [E337] (ab32538)

**Lane 1 :** Anti-Erk1 (pT202/pY204) + Erk2 (pT185/pY187) antibody [E337] (ab32538) at 1/500 dilution

**Lane 2 :** Anti-Erk1 (pT202/pY204) + Erk2 (pT185/pY187) antibody [E337] (ab32538) at 1/2000 dilution

**Lane 3 :** Anti-Erk1 (pT202/pY204) + Erk2 (pT185/pY187) antibody [E337] (ab32538) at 1/10000 dilution

**All lanes :** A431 treated with EGF for 10 minutes

Lysates/proteins at 0.1 µg/ml per lane.

### Secondary

**All lanes :** Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

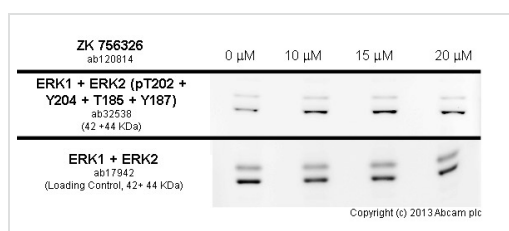
**Predicted band size:** 42 , 44 kDa

**Observed band size:** 42.44 kDa

[why is the actual band size different from the predicted?](#)

**Exposure time:** 3 minutes

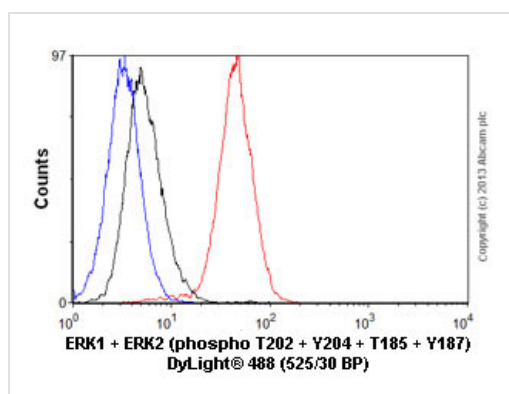
First-antibody diluted with 1% BSA.



Western blot - Anti-Erk1 (pT202/pY204) + Erk2 (pT185/pY187) antibody [E337] (ab32538)

THP1 cells were incubated at 37°C for 3 minutes with vehicle control (0 μM) and different concentrations of ZK 756326 (ab120814). Increased expression of ERK1 (phospho T202 + Y204) + ERK2 (phospho T185 + Y187) (ab32538) in THP1 cells correlates with an increase in ZK 756326 concentration, as described in literature.

Whole cell lysates were prepared with RIPA buffer (containing protease inhibitors and sodium orthovanadate), 10 μg of each were loaded on the gel and the WB was run under reducing conditions. After transfer the membrane was blocked for an hour using 5% BSA before being incubated with ab32538 at 1/500 dilution and ab17942 at 1 μg/ml overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP (ab97051) at 1/10000 dilution and visualised using ECL development solution.



Flow Cytometry - Anti-Erk1 (pT202/pY204) + Erk2 (pT185/pY187) antibody [E337] (ab32538)

Overlay histogram showing HeLa cells stained with ab32538 (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 (ab32538, 1/1000 dilution) for 30 min at 22°C. The secondary antibody used was a goat anti-rabbit DyLight® 488 (IgG; H+L) (ab96899) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (1 μg/1x10<sup>6</sup> cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter.

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