

## Datasheet: AHP2608

<b>Description:</b>	RABBIT ANTI ERK1 (pThr202/pTyr204)/ERK2 (pThr185/pTyr187)
<b>Specificity:</b>	ERK1 (pThr202/pTyr204)/ERK2 (pThr185/pTyr187)
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	50 µl

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Western Blotting	▪			1/500 - 1/2000

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

### Target Species

Human

### Species Cross Reactivity

Reacts with: Mouse

Based on sequence similarity, is expected to react with:Rat

**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

### Product Form

Purified IgG - liquid

### Antiserum Preparation

Antiserum to ERK1/2 (pThr202/pTyr204) was raised by repeated immunization of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.

### Buffer Solution

Phosphate buffered saline

### Preservative Stabilisers

0.02% Sodium Azide

50% Glycerol

**Immunogen** Phospho specific-peptide corresponding to residues surrounding threonine 202/tyrosine 204 of human ERK1 and residues surrounding threonine 185/tyrosine 187 of human ERK2

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**External Database Links**

**UniProt:**

[P27361](#)    [Related reagents](#)  
[P28482](#)    [Related reagents](#)

**Entrez Gene:**

[5595](#)    MAPK3    [Related reagents](#)  
[5594](#)    MAPK1    [Related reagents](#)

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**Synonyms** ERK1, ERK2, PRKM1, PRKM2, PRKM3

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**Specificity** **Rabbit anti ERK1 (pThr202/pTyr204)/ERK2 (pThr185/pTyr187) antibody** recognizes ERK1 when phosphorylated at threonine 202/tyrosine 204 and ERK2 when phosphorylated at threonine 185/tyrosine 187. ERK1 and ERK2 are members of the Mitogen Activated Protein Kinase (MAPK) family. MAPKs constitute a diverse set of signaling pathways. In the case of ERK a cascade is initiated by binding activation of a membrane bound receptor which causes activation of a small GTPase, RAS, which in turn activates the protein kinase activity of the RAF protein. RAF in turn phosphorylates and activates MEK. MEK induces phosphorylation of ERK1 at residues threonine 202/tyrosine 204 and ERK 2 at residues threonine 185/tyrosine 187. Phosphorylation of the residues corresponds to activation of ERK1/2 and mediation of its diverse biological functions including cell growth, differentiation, motility, and adhesion via its effects on transcription, translation, cytoskeletal rearrangement and cross talk with other signaling pathways.

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**Storage** Store at -20°C  
Storage in frost-free freezers is not recommended.  
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10049 available at:  
10049: <https://www.bio-rad-antibodies.com/uploads/MSDS/10049.pdf>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...)    [FITC](#)  
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)  
Sheep Anti Rabbit IgG (STAR35...)    [RPE](#)

Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®680](#), [DyLight®800](#)

## Recommended Useful Reagents

[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

**North & South** Tel: +1 800 265 7376

**Worldwide**

Tel: +44 (0)1865 852 700

**Europe**

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)

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