

Datasheet: AHP2608

Description:	RABBIT ANTI ERK1 (pThr202/pTyr204)/ERK2 (pThr185/pTyr187)
Specificity:	ERK1 (pThr202/pTyr204)/ERK2 (pThr185/pTyr187)
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	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.

	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.
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

External Database Links

UniProt:

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

Entrez Gene:

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

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

Synonyms	ERK1, ERK2, PRKM1, PRKM2, PRKM3
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.
Western Blotting	Due to the presence of phosphoproteins in milk, the use of milk based blocking reagents is not recommended. 1% BSA in PBS or TBS Tween should be used instead.
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.
Shelf Life	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10049 available at: 10049: https://www.bio-rad-antibodies.com/uploads/MSDS/10049.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

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

Sheep Anti Rabbit IgG (2AB02...) [Biotin](#)

Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®549](#), [DyLight®649](#),
[DyLight®680](#), [DyLight®800](#)

Recommended Useful Reagents

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

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