

Datasheet: AHP1062

Description:	GOAT ANTI HUMAN ERK1 (N-TERMINAL)
Specificity:	ERK1 (N-TERMINAL)
Other names:	MAPK3
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 mg

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
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			1/4000
Immunoprecipitation			▪	
Western Blotting	▪			0.1 - 0.3ug/ml
Functional Assays			▪	

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
Product Form	Purified IgG - liquid
Antiserum Preparation	Antisera to ERK 1 were raised by repeated immunisations of goat with highly purified antigen. Purified IgG prepared by affinity chromatography.
Buffer Solution	TRIS buffered saline
Preservative Stabilisers	0.02% Sodium Azide (NaN ₃) 0.5% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.5mg/ml
Immunogen	Peptide with sequence C-GGEPRRTEGVGP from the N-terminal of ERK 1 .
External Database	UniProt:

Links

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

Entrez Gene:

[5595](#)

MAPK3

[Related reagents](#)

Synonyms

ERK1, PRKM3

Specificity

Goat anti Human ERK1 antibody detects an epitope within the N-terminal (NT) of extracellular signal-regulated kinase 1 (ERK1). ERK1 is a ~45 kDa protein involved in the initiation and regulation of meiosis, mitosis, and postmitotic functions in differentiated cells. ERK1 is a member of the MAP kinase (MAPK) family, and is activated by MAP/ERK kinase 1 (MEK1) and MEK2. ERK1 and ERK2, are emerging as important regulators of neuronal responses to both functional and pathologic stimuli.

Western Blotting

AHP1062 detects a band of approximately 45kDa in human brain, HEK293 and A431lysates.

References

1. Nishimoto, S. and Nishida, E. (2006) MAPK signalling: ERK5 versus ERK1/2. [EMBO Rep. 7: 782-6.](#)
 2. Chu, C.T. *et al.* (2004) Oxidative neuronal injury. The dark side of ERK1/2. [Eur. J. Biochem. 271: 2060-2066.](#)
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Storage

Store at +4°C or at -20°C if preferred.
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

18 months from date of despatch.

Health And Safety Information

Material Safety Datasheet Documentation #10058 available at:
<https://www.bio-rad-antibodies.com/uploads/MSDS/10058.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Goat IgG (Fc) (STAR122...) [FITC](#), [HRP](#)

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