

## Datasheet: AHP1105

<b>Description:</b>	RABBIT ANTI HUMAN ERK1
<b>Specificity:</b>	ERK1
<b>Other names:</b>	MAPK3
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	50 µg

## 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
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin (1)	▪			10 - 20ug/ml
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	
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.

**(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.**

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Antiserum Preparation</b>	Antisera to ERK1 were raised by repeated immunisations of rabbit with highly purified antigen. Purified IgG prepared by affinity chromatography.
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0mg/ml
<b>Immunogen</b>	Synthetic peptide: Internal domain of human ERK1.

**External Database  
Links**

**UniProt:**

[P27361](#)   [Related reagents](#)

**Entrez Gene:**

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

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**Synonyms**

ERK1, PRKM3

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**Specificity**

**Rabbit anti Human ERK1 antibody** detects extracellular signal regulated kinase 1 (ERK1), 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.

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**Histology Positive  
Control Tissue**

Neurons and Glia.

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**Further Reading**

1. Nishimoto, S. & Nishida, E. (2006) MAPK signalling: ERK5 versus ERK1/2. [EMBO Rep. 7 \(8\): 782-6.](#)
2. Chu, C.T. *et al.* (2004) Oxidative neuronal injury. The dark side of ERK1/2. [Eur J Biochem. 271 \(11\): 2060-6.](#)

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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.

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**Shelf Life**

18 months from date of despatch.

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**Health And Safety  
Information**

Material Safety Datasheet documentation #10040 available at:  
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.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](#)  
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

- [HISTAR DETECTION SYSTEM \(STAR3000A\)](#)  
[HISTAR DETECTION SYSTEM \(STAR3000B\)](#)  
[HISTAR DETECTION SYSTEM \(STAR3000C\)](#)  
[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)  
[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)

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