

Datasheet for ABIN6988087

**anti-ERK1/2 antibody (AA 301-358) (PE)**[Go to Product page](#)

## Overview

|                      |                                              |
|----------------------|----------------------------------------------|
| Quantity:            | 100 µL                                       |
| Target:              | ERK1/2 (MAPK1/3)                             |
| Binding Specificity: | AA 301-358                                   |
| Reactivity:          | Human, Mouse, Rat, Pig                       |
| Host:                | Rabbit                                       |
| Clonality:           | Polyclonal                                   |
| Conjugate:           | This ERK1/2 antibody is conjugated to PE     |
| Application:         | Western Blotting (WB), Flow Cytometry (FACS) |

## Product Details

|                       |                                                          |
|-----------------------|----------------------------------------------------------|
| Immunogen:            | KLH conjugated synthetic peptide derived from mouse ERK2 |
| Isotype:              | IgG                                                      |
| Cross-Reactivity:     | Human, Mouse, Pig, Rat                                   |
| Predicted Reactivity: | Dog,Cow,Horse,Chicken,Rabbit                             |
| Purification:         | Purified by Protein A.                                   |

## Target Details

|                   |                                                                                         |
|-------------------|-----------------------------------------------------------------------------------------|
| Target:           | ERK1/2 (MAPK1/3)                                                                        |
| Alternative Name: | ERK1 + ERK2 ( <a href="#">MAPK1/3 Products</a> )                                        |
| Background:       | Synonyms: Mitogen-activated protein kinase 1, MAP kinase 1, MAPK 1, ERT1, Extracellular |

## Target Details

signal-regulated kinase 2, ERK-2, MAP kinase isoform p42, p42-MAPK, Mitogen-activated protein kinase 2, MAP kinase 2, MAPK 2, Mapk1, Erk2, Mapk, Prkm1

Background: Serine/threonine kinase which acts as an essential component of the MAP kinase signal transduction pathway. MAPK1/ERK2 and MAPK3/ERK1 are the 2 MAPKs which play an important role in the MAPK/ERK cascade. They participate also in a signaling cascade initiated by activated KIT and KITLG/SCF. Depending on the cellular context, the MAPK/ERK cascade mediates diverse biological functions such as cell growth, adhesion, survival and differentiation through the regulation of transcription, translation, cytoskeletal rearrangements. The MAPK/ERK cascade plays also a role in initiation and regulation of meiosis, mitosis, and postmitotic functions in differentiated cells by phosphorylating a number of transcription factors. About 160 substrates have already been discovered for ERKs. Many of these substrates are localized in the nucleus, and seem to participate in the regulation of transcription upon stimulation. However, other substrates are found in the cytosol as well as in other cellular organelles, and those are responsible for processes such as translation, mitosis and apoptosis. Moreover, the MAPK/ERK cascade is also involved in the regulation of the endosomal dynamics, including lysosome processing and endosome cycling through the perinuclear recycling compartment (PNRC), as well as in the fragmentation of the Golgi apparatus during mitosis.

Gene ID: 26413

UniProt: [P63085](#)

## Application Details

Application Notes: FCM 1:20-100

Restrictions: For Research Use only

## Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: Aqueous buffered solution containing 0.01M TBS ( pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be

Handling

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|                  |                                                                                   |
|------------------|-----------------------------------------------------------------------------------|
|                  | handled by trained staff only.                                                    |
| Storage:         | -20 °C                                                                            |
| Storage Comment: | Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles. |
| Expiry Date:     | 12 months                                                                         |