

Datasheet for ABIN682936

**anti-ERK1/2 antibody (pThr202, pTyr204) (Cy3)**[Go to Product page](#)

## Overview

|                      |                                                                                                                                                       |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Quantity:            | 100 µL                                                                                                                                                |
| Target:              | ERK1/2 (MAPK1/3)                                                                                                                                      |
| Binding Specificity: | pThr202, pTyr204                                                                                                                                      |
| Reactivity:          | Human, Mouse, Rat, Cow                                                                                                                                |
| Host:                | Rabbit                                                                                                                                                |
| Clonality:           | Polyclonal                                                                                                                                            |
| Conjugate:           | This ERK1/2 antibody is conjugated to Cy3                                                                                                             |
| Application:         | Western Blotting (WB), Immunofluorescence (Cultured Cells) (IF (cc)), Flow Cytometry (FACS), Immunofluorescence (Paraffin-embedded Sections) (IF (p)) |

## Product Details

|                       |                                                                                                                           |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------|
| Immunogen:            | KLH conjugated synthetic phosphopeptide derived from human p44/42 MAPK around the phosphorylation site of (Thr202/Tyr204) |
| Isotype:              | IgG                                                                                                                       |
| Cross-Reactivity:     | Dog, Human, Mouse, Rat                                                                                                    |
| Predicted Reactivity: | Cow,Pig,Horse,Chicken,Rabbit,Guinea Pig                                                                                   |
| Purification:         | Purified by Protein A.                                                                                                    |

## Target Details

|         |                  |
|---------|------------------|
| Target: | ERK1/2 (MAPK1/3) |
|---------|------------------|

## Target Details

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| Alternative Name: | Erk1/2 ( <a href="#">MAPK1/3 Products</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Sub Type:         | Cocktail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Background:       | <p>Synonyms: ERK1, ERT2, ERK-1, PRKM3, P44ERK1, P44MAPK, HS44KDAP, HUMKER1A, p44-ERK1, p44-MAPK, Mitogen-activated protein kinase 3, MAP kinase 3, MAPK 3, Extracellular signal-regulated kinase 1, Insulin-stimulated MAP2 kinase, MAP kinase isoform p44, Microtubule-associated protein 2 kinase, MAPK3</p> <p>Background: p44/42 MAP Kinase(Thr202), ERK (extracellular signal regulated kinase), also known as MAPK (mitogen activated protein kinase) has two closely related isoforms of 44 kDa and 42 kDa, respectively. These kinases belong to a family of serine/threonine kinases that are activated upon treatment of cells with a large variety of stimuli including mitogens, hormones, growth factors, cytokines, and bioactive peptides. Cell stimulation induces the activation of a signaling cascade, the downstream effects of which have been linked to the regulation of cell growth and differentiation as well as the cytoskeleton. ERK1 and ERK2 are phosphorylated within the activation loop on both a Threonine and a Tyrosine residue (within a Thr-Glu-Tyr motif) by MEKs (MAPK/ERK kinases), thereby greatly elevating the activity of ERK1&amp;2.</p> |
| Gene ID:          | 5595                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| UniProt:          | <a href="#">P27361</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## Application Details

|                    |                       |
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| Application Notes: | IF(IHC-P) 1:50-200    |
| 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:      | Sodium azide                                                                                                            |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only. |
| Storage:           | -20 °C                                                                                                                  |

Handling

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