

Datasheet for ABIN6943275 **anti-ERK1/2 antibody**

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Overview

Quantity:	100 µL
Target:	ERK1/2 (MAPK1/3)
Reactivity:	Human, Mouse, Rat, Zebrafish (Danio rerio)
Host:	Rabbit
Clonality:	Monoclonal
Conjugate:	This ERK1/2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Flow Cytometry (FACS)

Product Details

Immunogen:	Recombinant Human ERK1 + ERK2 between 150 amino acids to C-terminus
Clone:	3A12
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat, Zebrafish (Danio rerio)
Purification:	Purified by Protein A.

Target Details

Target:	ERK1/2 (MAPK1/3)
Alternative Name:	ERK1/2 (MAPK1/3 Products)
Background:	Synonyms: ERK 1, ERK 2, ERK-2, ERK1, erk1/2, ERK2, ERT1, ERT2, Extracellular signalregulated

Target Details

kinase 1, Extracellular signal-regulated kinase 2, MAP kinase 1, MAP kinase 2, MAP kinase isoform p42, MAP kinase isoform p44, MAPK 1, MAPK 2, MAPK 3, Mapk1, MAPK2, MAPK3, Mitogen-activated protein kinase 1, Mitogenactivated protein kinase 2, MK01_HUMAN, p38, p40, p41, p42-MAPK, PRKM 2

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&2.

UniProt: [P27361](#), [P28482](#)

Application Details

Application Notes: WB 1:300-5000
FCM 1:20-100
IHC-P 1:200-400
IF(ICC) 1:50-200

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: Aqueous buffered solution containing 1xTBS (pH 7.4), 1 % BSA, 40 %Glycerol and 0.05 % Sodium Azide.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Store at -20°C for 12 months.

Handling

Expiry Date: 12 months