Datasheet for ABIN1724731

anti-ERK1/2 antibody

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Overview

Quantity:	100 µL
Target:	ERK1/2 (MAPK1/3)
Reactivity:	Human, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This ERK1/2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Flow Cytometry (FACS)

Product Details

Immunogen:	Purified recombinant fragment of human MAPK expressed in E. coli.
Clone:	3F8
Isotype:	IgG2b
Purification:	purified

Target Details

Target:	ERK1/2 (MAPK1/3)
Alternative Name:	p44/42 MAPK (Erk1/2) (MAPK1/3 Products)
Background:	Description: Mitogen-activated protein kinases (MAPKs) are a widely conserved family of serine/threonine protein kinases involved in many cellular programs such as cell proliferation, differentiation, motility, and death. The p44/42 MAPK (Erk1/2) signaling pathway can be activated in response to a diverse range of extracellular stimuli including mitogens, growth

Target Details

	factors, and cytokines and is an important target in the diagnosis and treatment of cancer. Upon stimulation, a sequential three-part protein kinase cascade is initiated, consisting of a MAP kinase kinase kinase (MAPKKK or MAP3K), a MAP kinase kinase (MAPKK or MAP2K), and a MAP kinase (MAPK). Multiple p44/42 MAP3Ks have been identified, including members of the Raf family as well as Mos and Tpl2/Cot. MEK1 and MEK2 are the primary MAPKKs in this pathway. MEK1 and MEK2 activate p44 and p42 through phosphorylation of activation loop residues Thr202/Tyr204 and Thr185/Tyr187, respectively. Several downstream targets of p44/42 have been identified, including p90RSK and the transcription factor Elk-1. p44/42 are negatively regulated by a family of dual-specificity (Thr/Tyr) MAPK phosphatases, known as DUSPs or MKPs, along with MEK inhibitors such as U0126 and PD98059. Aliases: ERK, p38, p40, p41, ERK2, ERT1, MAPK2, PRKM1, PRKM2, P42MAPK, p41mapk, MAPK1
Molecular Weight:	42 kDa
Gene ID:	5594
HGNC:	5594

Application Details

Application Notes:	ELISA: 1:10000, WB: 1:500 - 1:2000, IHC: 1:200 - 1:1000, FCM: 1:200 - 1:400
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Ascitic fluid containing 0.03 % sodium azide.
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:	4 °C/-20 °C
Storage Comment:	4°C, -20°C for long term storage

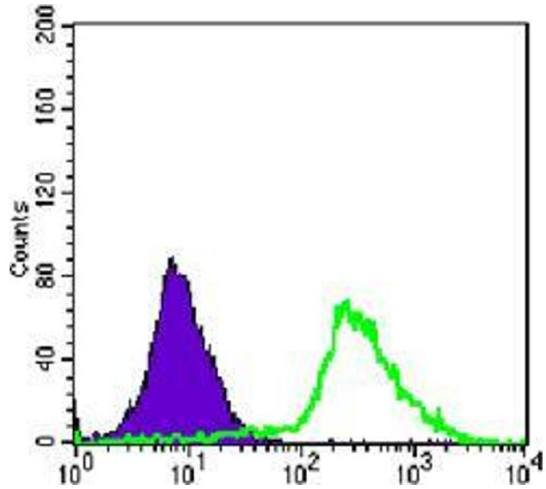
Publications

Product cited in:	Lønne, Masoumi, Lennartsson, Larsson: "Protein kinase Cdelta supports survival of MDA-MB-

Publications

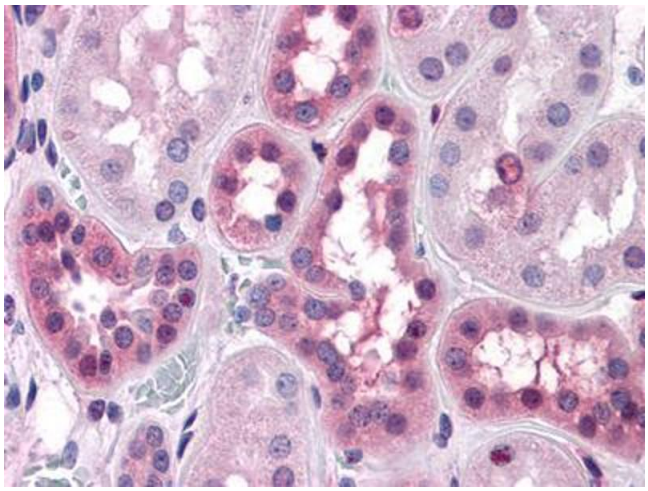
231 breast cancer cells by suppressing the ERK1/2 pathway." in: **The Journal of biological chemistry**, Vol. 284, Issue 48, pp. 33456-65, (2009) (PubMed).

Images



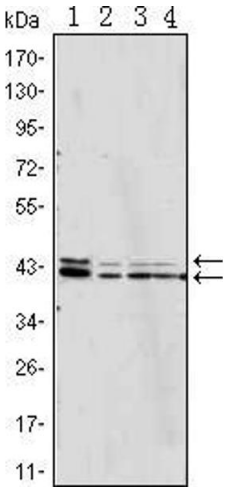
Flow Cytometry

Image 1. Flow cytometric analysis of Jurkat cells using p44/42 MAPK mAb (green) and negative control (purple).



Immunohistochemistry

Image 2. Immunohistochemical analysis of paraffin-embedded human Liver tissues using anti-BHMT mouse mAb



Western Blotting

Image 3. Western blot analysis using p44/42 MAPK mouse mAb against Jurkat (1), Hela (2), A431 (3) and NIH/3T3 (4) cell lysate.