

ERK1 + ERK2 Antibody FITC Conjugated

Catalog No: #C00013F

Package Size: #C00013F 100ul

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Description

Product Name	ERK1 + ERK2 Antibody FITC Conjugated
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	Purified by Protein A.
Applications	IF(IHC-P)
Species Reactivity	Hu Ms Rt
Immunogen Description	KLH conjugated synthetic peptide aa 330-358 358 derived from mouse ERK2
Conjugates	FITC
Target Name	ERK1 + ERK2
Other Names	Mitogen-activated protein kinase 1; MAP kinase 1; MAPK 1; ERT1; Extracellular 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
Cell Localization	Cytoplasm, Nucleus
Concentration	1mg ml
Formulation	10mM Tris Buffered Saline containing 1% BSA, 50% glycerol and 0.09% sodium azide.
Storage	Store at 4C for 12 months.

Application Details

Immunofluorescence: 1:50-200

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.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.