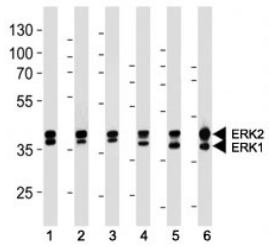
ERK1/2 Antibody [clone 784CT7.6.3] (F52227)

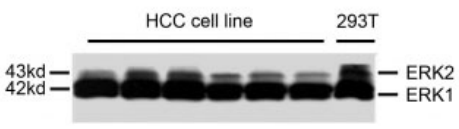
Catalog No.	Formulation	Size
F52227-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F52227-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a
Clone Name	784CT7.6.3
Purity	Purified
UniProt	P27361
Applications	Western Blot : 1:1000
Limitations	This ERK1/2 antibody is available for research use only.



ERK1/2 antibody western blot analysis in (1) 293, (2) MCF-7, (3) Jurkat, (4) mouse NIH3T3, (5) rat C6 cell line and (6) mouse heart lysate. ERK1 ~42 kDa, ERK2 ~43 kDa



Western blot analysis of extracts from HCC cell line and 293T cells using ERK1/2 antibody.

Description

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 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.

Application Notes

Titration of the ERK1/2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Purified His-tagged protein was used to produced this monoclonal ERK1/2 antibody.

Storage

Aliquot the ERK1/2 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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