Anti-ERK1/2 Mouse mAb

Purified Mouse Monoclonal Antibody

Catalog # M012643

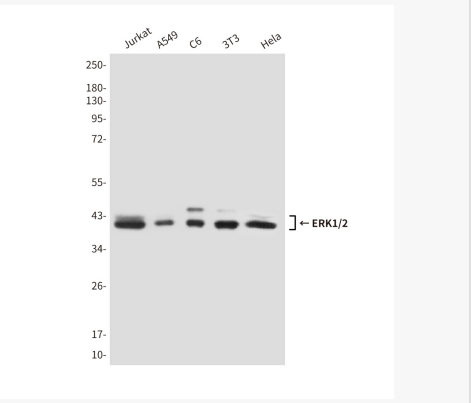
Product Information

Application	WB, ELISA
Reactivity	Human, Mouse (Cell), Rat
Dilution	WB 1:500~1:1,000
Host	Mouse
Clonality	Monoclonal
Clone No.	42M88K57
Isotype	IgG1
Label	Unconjugated
Immunogen	Human p44 MAPK (Erk1) synthetic peptide conjugated to KLH.
Format	Buffer System: Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3. Purification: Affinity Purified.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-ERK1/2 antibody [42M88K57] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	ERK 1, ERK 2, ERK-1, ERK-2, ERK1, erk1/2, ERK2, ERT1, ERT2, Extracellular signal regulated kinase 1, Extracellular signal-regulated kinase 1, Extracellular signal-regulated kinase 2, HS44KDAP, HUMKER1A, Insulin-stimulated MAP2 kinase, MAP kinase 1, MAP kinase 2, MAP kinase 3, MAP kinase isoform p42, MAP kinase isoform p44, MAPK 1, MAPK 2, MAPK 3, Mapk1, MAPK2, MAPK3, Microtubule-associated protein 2 kinase, Mitogen-activated protein kinase 1, Mitogen-activated protein kinase 2, Mitogen-activated protein kinase 3, MK01_HUMAN, p41mapk, p42-MAPK, P42MAPK, p44-ERK1, p44-MAPK, p44ERK1, p44MAPK, PRKM 2, PRKM1, PRKM2, PRKM3, protein tyrosine kinase ERK2.
Calculated MW	Calculated MW: 44,42 kDa; Observed MW: 42,44 kDa
Uniprot ID	P27361, P28482
Gene ID	5595/5594
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.

Validation Images



Western blot analysis of ERK1/2 in Jurkat, A549, C6, 3T3 and Hela lysates using ERK1/2 antibody antibody [42M88K57].