

Datasheet for ABIN371670

anti-ERK1/2 antibody





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Product Details	
Application:	Western Blotting (WB), Immunoprecipitation (IP)
Conjugate:	This ERK1/2 antibody is un-conjugated
Clonality:	Monoclonal
Host:	Mouse
Reactivity:	Human
Target:	ERK1/2 (MAPK1/3)
Quantity:	50 μg
Overview	

Immunogen:	Human recombinant Erk1 and Erk2.
Clone:	SB46b
Isotype:	lgG2a
Specificity:	This antibody precipitates ~42 kDa and ~44 kDa bands, corresponding to Erk1 and Erk2, respectively.
Characteristics:	Synonyms: MAPK1, ERK2, PRKM1, PRKM2, ERK-2, ERT1, ERT2, PRKM3, MAPK3, ERK-1, ERK1, Mitogen-activated protein kinase, Extracellular signal-regulated kinase, Insulinstimulated MAP2 kinase
Purification:	Purified

Target Details

ERK1/2 (MAPK1/3) Target:

Target Details

Alternative Name:	ERK1 / ERK2 (MAPK1/3 Products)	
Background:	Erk1 and Erk2 are closely related mitogen activated protein (MAP) kinases which are activated	
	by many growth factors, mitogens and differentiation-promoting agents via a protein kinase	
	cascade. Also known as extracellular signal-regulated kinase 1 and 2, p44/p42 MAP kinases,	
	microtubule-associated protein-2 kinases, myelin basic protein (MBP) kinases or EGF receptor	
	T669 (Ert) kinases. (Ref.1-4) Erk1 and Erk2 are ubiquitous and abundant, although their relative	
	abundance in specific tissues may vary. The two kinases are nearly 85 % identical and have	
	higher identity in the core regions involved in substrate binding. (Ref.4) Erk1 and Erk2 are	
	activated approximately 1000-fold by phosphorylation within a Thr-Glu-Tyr motif in the	
	activation loop on both threonine and tyrosine residues by Mek1 and Mek2. (Ref.4,5) Both sites	
	must be phosphorylated for maximum activity. (Ref.1-4) These kinases in turn phosphorylate a	
	variety of different substrates. Erk1 and Erk2 are found in the cytoplasm and are translocated to	
	the nucleus upon activation. Erk1 and Erk2 target membrane proteins, cytosolic proteins, such	
	as downstream kinases, and cytoskeletal proteins and nuclear proteins, such as transcription	
	factors. Many of these substrates are important regulatory proteins. Erk1 and Erk2 represent	
	proximal kinases in the classical kinase pathway which links growth and differentiation signals	
	at the cell surface (through tyrosine kinases) with transcription in the nucleus. (Ref.1-	
	3)Synonyms: ERK-1/ERK-2, Extracellular signal-regulated kinase, Insulin-stimulated MAP2	
	kinase, MAPK1/MAPK2, Mitogen-activated protein kinase, P42/P44-MAPK	
Application Details		
Application Notes:	Western Blot: 1-2 µg/mL. Predicted Mol. Weight: 42 and 44 kDa. Immunoprecipitation: 10-15 µg	
	Other applications not tested.	
	Optimal dilutions are dependent on conditions and should be determined by the user.	
Restrictions:	For Research Use only	
Handling		
Concentration:	0.05 mg/mL	
Buffer:	100 mM Borate buffered saline, pH 8.0 without preservatives.	
Preservative:	Without preservative	
Storage:	4 °C/-20 °C	
Storage Comment:	Store the antibody undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer. Avoid	

Handling

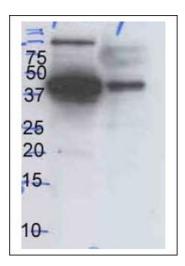
repeated freezing and thawing.

Shelf life: one year from despatch.

Expiry Date:

12 months

Images



Western Blotting

Image 1.