

Datasheet for ABIN197000

anti-ERK1/2 antibody (pThr187, pTyr204)[Go to Product page](#)**3** Images

Overview

Quantity:	0.1 mL
Target:	ERK1/2 (MAPK1/3)
Binding Specificity:	pThr187, pTyr204
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ERK1/2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (IF)

Product Details

Immunogen:	The antiserum was produced against synthesized phosphopeptide derived from Human p44/42 MAP Kinase around the phosphorylation site of Tyrosine 204 (T-E-Yp-V-A).
Specificity:	This antibody detects endogenous levels of p44/42 MAP Kinase only when phosphorylated at Tyrosine 204.
Purification:	Affinity Chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.

Target Details

Target:	ERK1/2 (MAPK1/3)
---------	------------------

Target Details

Alternative Name:	ERK1 / ERK2 (MAPK1/3 Products)
Background:	Both p44 and p42 MAP kinases (Erk1 and Erk2) function in a protein kinase cascade that plays a critical role in the regulation of cell growth and differentiation. Activation of MAP kinases occurs through phosphorylation of threonine and tyrosine (202 and 204 of human MAP kinase [Erk1] or 183 and 185 of rat Erk2) at the sequence T*EY* by a single upstream MAP kinase kinase (MEK). Both kinases are known to weakly autophosphorylate on tyrosine.Synonyms: ERK-1/ERK-2, Extracellular signal regulated kinase 1/2, Insulin stimulated MAP2 kinase, MAPK1/MAPK2, Microtubule associated protein 2 kinase, Mitogen activated protein kinase 1/2/3, P42/P44-MAPK

Application Details

Application Notes:	Western Blot: 1/500approx. 1/1000. Immunohistochemistry: 1/50approx. 1/100. Immunofluorescence: 1/100approx. 1/200. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Protocol:	1. TETE HANNKEN, et al. (2000) Am Soc Nephrol 11: 1387-13972. Omar D. PerezNature et al. (2002) Biotechnology 20: 155 - 1623. Jingui Yu, et al. (2005) Anesth Analg 101: 315-3214. Hironobu Ihn et al. (2000) Immunology 165: 2149-2155

Restrictions:	For Research Use only
---------------	-----------------------

Handling

Concentration:	1.0 mg/mL
Buffer:	PBS (without Mg2+ and Ca2+), pH 7.4, 150 mM NaCl, 0.02 % Sodium Azide as preservative and 50 % Glycerol as stabilizer.
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	-20 °C
Storage Comment:	Store the antibody (in aliquots) at -20 °C.

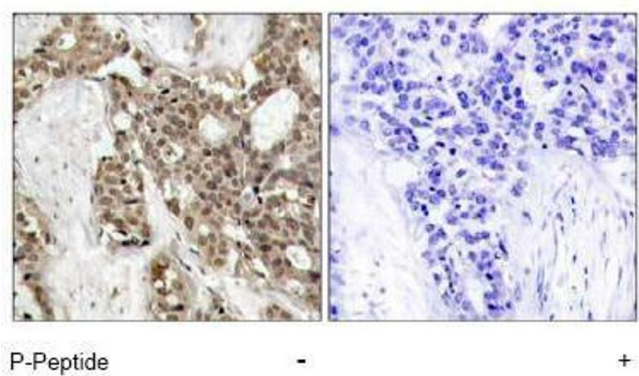


Image 1.

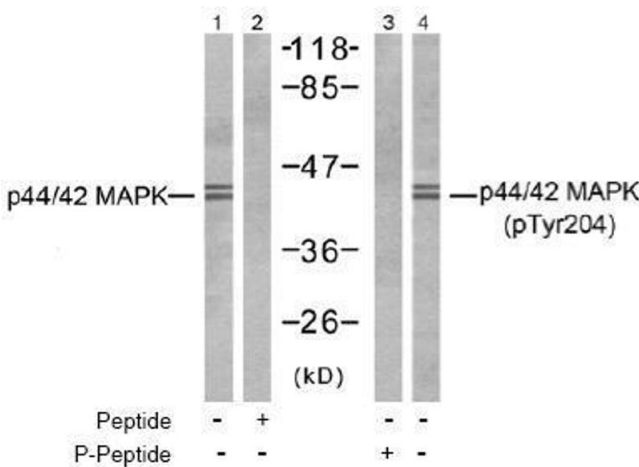


Image 2.

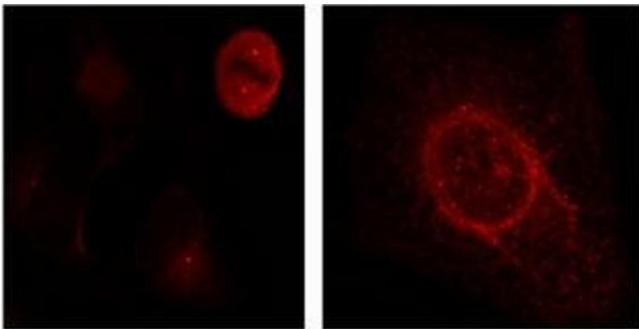


Image 3.