p44/42 MAP Kinase(Phospho-Tyr204) Antibody

Catalog No: #11246

Package Size: #11246-1 50ul #11246-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	p44/42 MAP Kinase(Phospho-Tyr204) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatogramphy using non-phosphopeptide.
Applications	WB IHC IF
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of p44/42 MAP Kinase only when phosphorylated at tyrosine 204.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of tyrosine 204 (T-E-Y(p)-V-A) derived from Human p44/42 MAP Kinase.
Target Name	p44/42 MAP Kinase
Modification	Phospho
Other Names	ERK1, ERT2, ERK-1, PRKM3, P44ERK1
Accession No.	Swiss-Prot: P27361NCBI Protein: NP_001035145.1
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

Application Details

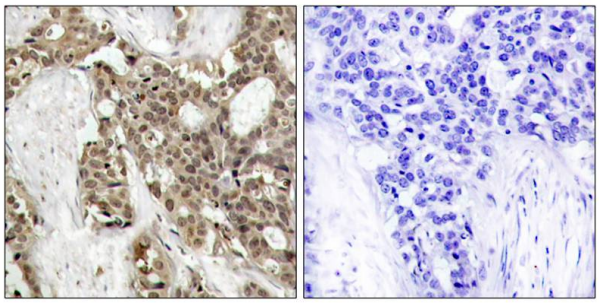
Predicted MW: 42 44 kd

Western blotting: 1:500~1:1000

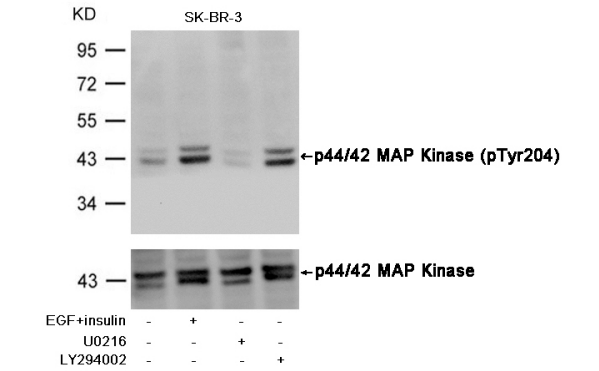
Immunohistochemistry: 1:50~1:100

Immunofluorescence: 1:100~1:200

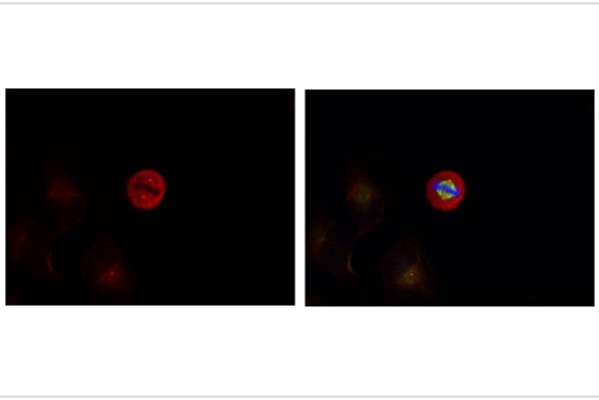
Images



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using p44/42 MAP Kinase (Phospho-Tyr204) Antibody #11246 (left) or the same antibody preincubated with blocking peptide #51246 (right).



Western blot analysis of extracts from SK-BR-3 cells, treated with insulin and EGF, and pretreated with U0126 and LY294002 cells using p44/42 MAP Kinase (Phospho-Tyr204) Antibody #11246.



Immunofluorescence staining of methanol-fixed Hela cells showing centrosome and nuclear staining using p44/42 MAP Kinase (Phospho-Tyr204) Antibody #11246.

Background

Involved in both the initiation and regulation of meiosis, mitosis, and postmitotic functions in differentiated cells by phosphorylating a number of transcription factors such as ELK-1. Phosphorylates EIF4EBP1; required for initiation of translation. Phosphorylates microtubule-associated protein 2 (MAP2). Phosphorylates SPZ1

TETE HANNKEN, et al. (2000) Am Soc Nephrol 11:1387-1397

Omar D. PerezNature et al. (2002) Biotechnology 20: 155 - 162

Jingui Yu, et al. (2005) Anesth Analg 101: 315-321

Hironobu Ihn et al.(2000) Immunology 165: 2149-2155

Published Papers

Jin-Hang Gao, Shi-Lei Wen, Wen-Juan Yang el at., Celecoxib Ameliorates Portal Hypertension of the Cirrhotic Rats through the Dual Inhibitory Effects on the Intrahepatic Fibrosis and Angiogenesis., PLoS ONE, 8(7): e69309(2013)

PMID:23922700

el at., Phos-tag SDS-PAGE Systems for Phosphorylation Profiling of Proteins With a Wide Range of Molecular Masses Under Neutral pH Conditions. In Proteomics on 2012 Jan by Eiji Kinoshita, Emiko Kinoshita-Kikuta, et al..PMID: 22121028, , (2012)

PMID:22121028

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