Product **Datasheet**

Anti-p44/42 MAPK Rabbit pAb

WL0323c

For Research Use Only.Not For Use In Diagnostic Procedures

Product Information

Product name	Anti-p44/42 MAPK Rabbit pAb
Source	Rabbit
Species reactivity	Human, Mouse, Rat
Tested applications	Western blot 1:500-1:1000 Immunohistochemistry 1:50-1:500 **Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own experiment using appropriate negative and positive controls.*
Molecular Wt.	42/44 kDa
Pack size	50/100/200/500/1000µl
Storage	Store at -20°C. Avoid freeze/thaw cycles.
Storage buffer	Supplied in 20 mM phosphate (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide

General Information

Background

The p44/42 MAPK (Erk1/2) signaling pathway can be activated in response to a diverse range of extracellular stimuli including mitogens, growth factors, and cytokines, and research investigators consider it an important target in the diagnosis and treatment of cancer. Activation of ERK1 and ERK2 requires phosphorylation by upstream kinases such as MAP kinase kinase (MEK), MEK kinase and Raf-1. ERK1 and ERK2 phosphorylation can occur at specific tyrosine and threonine sites mapping within consensus motifs that include the Threonine-Glutamate-Tyrosine motif. ERK activation leads to dimerization with other ERKs and subsequent localization to the nucleus. Active ERK dimers phosphorylate serine and threonine residues on nuclear proteins and influence a host of responses that include proliferation, differentiation, transcription regulation and development.

Immunogen

Polyclonal antibody is produced by immunizing animals with a synthetic peptide of p44/42 MAPK.

Purification

Polyclonal antibody was purified by immunogen affinity chromatography.

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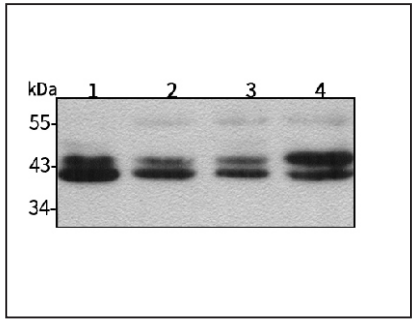
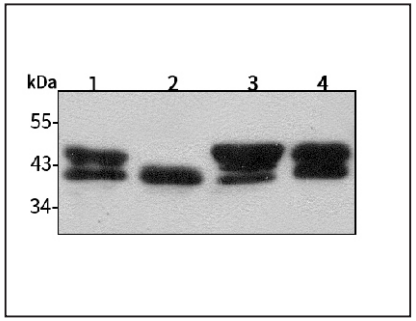
Product Images



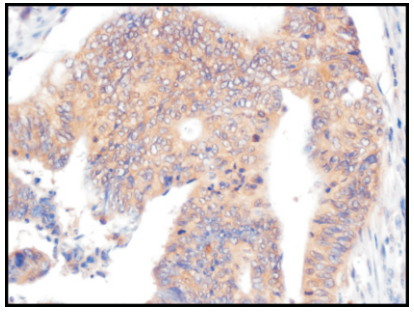
Western blot-Anti-p44/42 MAPK pAb

Lane 1: Human Hela cell lysate 20µg
Lane 2: Human SW480 cell lysate 20µg
Lane 3: Human BGC-823 cell lysate 20µg
Lane 4: Human MGC-803 cell lysate 20µg
Separation gel: 11% polyacrylamide
Electrophoresis: 100V, 4°C, 3h
Transmembrane: 100V, 4°C, 1h
Blocking: 5% w/v nonfat dry milk, 1×TBST, at RT with gentle shaking
Primary antibody: 1:1000 in blocking buffer, 4°C, overnight
Visualization: ECL



Western blot-Anti-p44/42 MAPK pAb

Lane 1: Mouse stomach tissue lysate 20µg
Lane 2: Mouse kidney tissue lysate 20µg
Lane 3: Rat lung tissue lysate 20µg
Lane 4: Rat brain tissue lysate 20µg
Separation gel: 11% polyacrylamide
Electrophoresis: 100V, 4°C, 3h
Transmembrane: 100V, 4°C, 1h
Blocking: 5% w/v nonfat dry milk, 1×TBST, at RT with gentle shaking
Primary antibody: 1:1000 in blocking buffer, 4°C, overnight
Visualization: ECL



Immunohistochemistry-Anti-p44/42 MAPK pAb

Sample: Human stomach cancer tissue
Antigen retrieval: pH 6.0 citrate buffer
Primary antibody: 1:100, 4°C, overnight
Secondary antibody-Biotin: 1:150, 37°C, 1h
Streptavidin-HRP: 1:200, 37°C, 30min
Visualization: DAB

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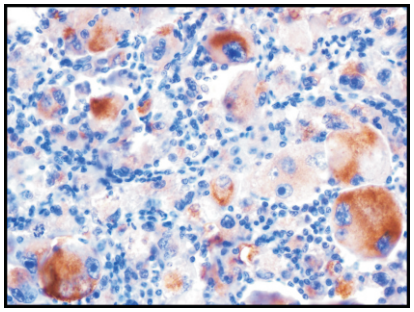

Immunohistochemistry-Anti-p44/42 MAPK pAb

Sample: Human kidney cancer tissue
Antigen retrieval: pH 6.0 citrate buffer
Primary antibody: 1:500, 4°C, overnight
Secondary antibody-Biotin: 1:150, 37°C, 1h
Streptavidin-HRP: 1:200, 37°C, 30min
Visualization: DAB