



P44/42 MAPK (ERK1/2) Monoclonal Antibody

Cat #: ABM0071

Size: 100µl

Product Information

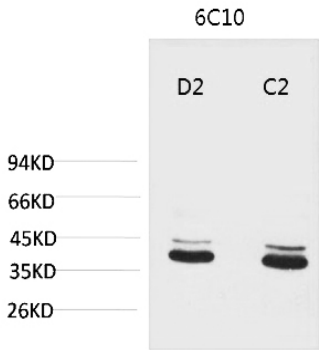
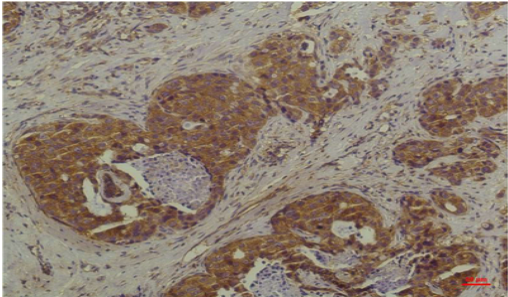
	Product Name: P44/42 MAPK (ERK1/2) Monoclonal Antibody		
	Applications: WB, IHC-P		Isotype: Mouse IgG1
	Reactivity: Human, Mouse, Rat		
REF	Catalog Number: ABM0071	LOT	Lot Number: Refer to product label
	Formulation: Liquid		Concentration: 1 mg/ml
	Storage: Store at -20°C. Avoid repeated freeze / thaw cycles.		Note: Contain sodium azide.

Background: MAPK1 (mitogen-activated protein kinase 1) encodes a member of the MAP kinase family. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), act as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development. The activation of this kinase requires its phosphorylation by upstream kinases. Upon activation, this kinase translocates to the nucleus of the stimulated cells, where it phosphorylates nuclear targets. One study also suggests that this protein acts as a transcriptional repressor independent of its kinase activity. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. Two alternatively spliced transcript variants encoding the same protein, but differing in the UTRs, have been reported for MAPK1.

Application Notes: Optimal working dilutions should be determined experimentally by the investigator. Suggested starting dilutions are as follows: WB (1:1000-1:2000), IHC-P (1:50-1:100).

Storage Buffer: PBS, pH 7.4, containing 0.02% Sodium Azide as preservative and 50% Glycerol.

Storage Instructions: Stable for one year at -20°C from date of shipment. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Aliquot to avoid repeated freezing and thawing.

	<p>Fig.1. Western blot analysis of 1) Mouse Brain Tissue, 2) Rat Brain Tissue with P44/42 MAPK (ERK1/2) Mouse mAb diluted at 1:2000.</p>
	<p>Fig.2. Immunohistochemical analysis of paraffin-embedded Human Breast Carcinoma using P44/42 MAPK (ERK1/2) Mouse mAb diluted at 1:200.</p>

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