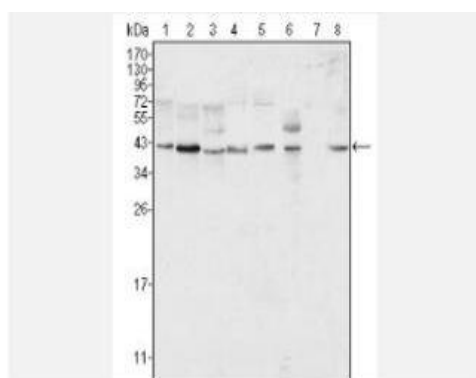


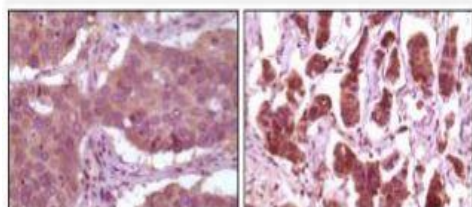
ERK 2 Monoclonal Antibody

Catalog No.	IMB0115
Reactivity	Human;Mouse;Monkey
Applications	WB; IHC-p; IF/ICC; ELISA
Gene Name	MAPK1
Protein Name	Mitogen-activated protein kinase 1
Human Gene Id	5594
Swiss-Prot	P28482
Formulation	Ascitic fluid containing 0.03% sodium azide,0.5% BSA, 50%glycerol.
Source	Monoclonal, Mouse
Dilution	WB: 1:500-1:2000 IHC: 1:200-1:1000 IF: 1:200-1:1000 ELISA: 1:10000
Purification	Affinity purification
Concentration	-
Storage&Stability	-20°C/1 year
Background	This gene 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.
Subcellular Location.	Cytoplasm, cytoskeleton, spindle. Nucleus. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm. Membrane, caveola. Cell junction, focal adhesion. Associated with the spindle during prometaphase and metaphase (By similarity). PEA15-binding and phosphorylated DAPK1 promote its cytoplasmic retention. Phosphorylation at Ser- 246 and Ser-248 as well as autophosphorylation at Thr-190 promote nuclear localization.
BiowMW	-

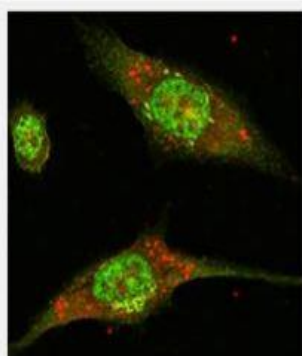
Products Images:



Western Blot analysis using ERK 2 Monoclonal Antibody against HeLa (1), NIH/3T3 (2), MCF-7 (3), HEK293 (4), Jurkat (5), A549 (6), NTERA-2 (7) and SMMC-7721 (8) cell lysate.



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma (left) and breast carcinoma (right) showing cytoplasmic localization with DAB staining using ERK 2 Monoclonal Antibody.



Immunofluorescence analysis of Eca-109 cells using ERK 2 Monoclonal Antibody (green).