



ERK2 Mouse Monoclonal Antibody

E10-20092

- Background:** ERK2 (also designated extracellular-signal-related kinase 2 or mitogen-activated protein kinase 1), with 360-amino acid protein (about 40kDa), belongs to the MAP kinase family. MAP kinases 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 ERK2 requires its phosphorylation by upstream kinases. ERK2 is located in the cytoplasm of resting cells and translocates into the nucleus upon extracellular stimuli by active transport of a dimer. ERK2 is essential for placental development and ERK2 in the trophoblast compartment may be indispensable for the vascularization of the labyrinth.
- Catalog Number:** E10-20092
- Amount:** 100µg/100µl
- Clone Number:** 4C11
- Species:** Mouse IgG2a
- MW:** 41kDa
- Aliases:** ERK; p38; p40; p41; ERT1; MAPK2; PRKM1; P42MAPK; p41mapk; MAPK1
- Entrez Gene:** 5594
- Immunogen:** Purified recombinant fragment of human ERK2 expressed in E. Coli.
- Storage:** Store at 4°C, for long term storage, store at -20°C
- Formulation:** Purified antibody in PBS containing 0.03% sodium azide.
- Species Reactivities:** Human; Mouse; Monkey
- Tested Applications:** WB,IHC,IF, ELISA. Not yet tested in other applications. Determining optimal working dilutions by titration test.
- Application notes:** WB. 1/500 - 1/2000,IHC.1/200 - 1/1000,IF.1/200 - 1/1000, ELISA. Propose dilution 1/10000.

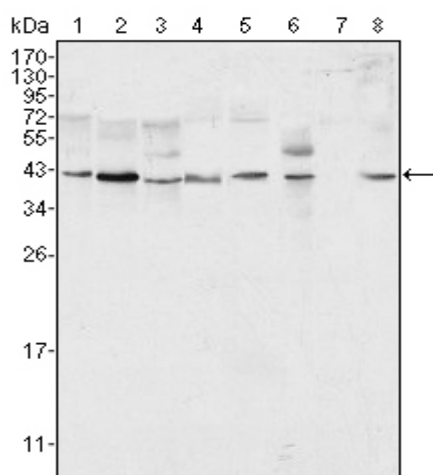


Figure 1. Western blot analysis using ERK2 mouse mAb against Hela (1), NIH/3T3 (2), MCF-7 (3), HEK293 (4), Jurkat (5), A549 (6), NTERA-2 (7) and SMMC-7721 (8) cell lysate.

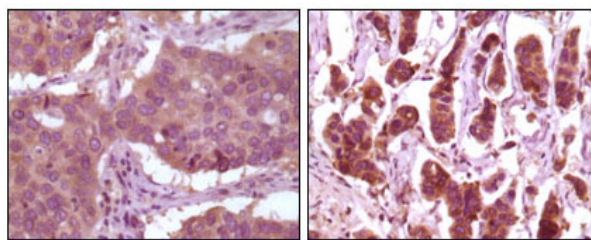


Figure 2. Immunohistochemical analysis of paraffin-embedded human lung carcinoma (left) and breast carcinoma (right) showing cytoplasmic localization using ERK2 mouse mAb with DAB staining.

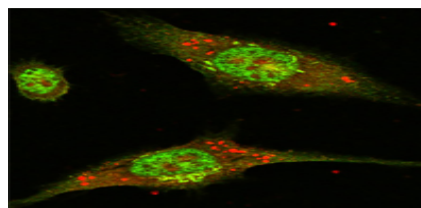


Figure 3. Confocal immunofluorescence analysis of Eca-109 cells using ERK2 mouse mAb (green).

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