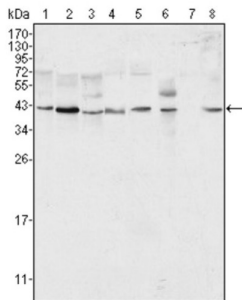
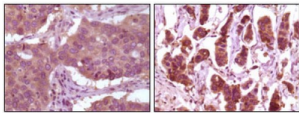


## Mitogen-Activated Protein Kinase 1 / ERK2 (MAPK1) Antibody

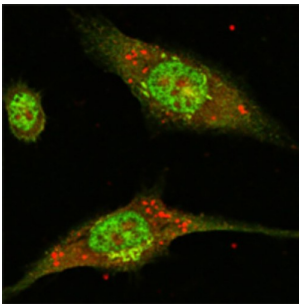
Catalogue No.: abx010745



Western blot analysis using ERK2 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.



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



Confocal immunofluorescence analysis of Eca-109 cells using ERK2 antibody (green).

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.

**Target:** Mitogen-Activated Protein Kinase 1 / ERK2 (MAPK1)

**Clonality:** Monoclonal

**Reactivity:** Human, Mouse, Monkey

**Tested Applications:** ELISA, WB, IHC, IF/ICC

**Host:** Mouse

# Datasheet

Version: 2.0.0  
Revision date: 31 Dec 2024



**Recommended dilutions:** ELISA: 1/10000, WB: 1/500 - 1/2000, IHC: 1/200 - 1/1000, IF/ICC: 1/200 - 1/1000. Optimal dilutions/concentrations should be determined by the end user.

**Conjugation:** Unconjugated

**Immunogen:** Purified recombinant fragment of human ERK2 expressed in E. coli.

**Isotype:** IgG<sub>2a</sub>

**Form:** Liquid

**Purification:** Purified from ascites by Protein G chromatography.

**Storage:** Aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.

**UniProt Primary AC:** P28482 ([UniProt](#), [ExPASy](#))

**GeneID:** [5594](#)

**KEGG:** hsa:5594

**String:** [9606.ENSP00000215832](#)

**Molecular Weight:** 41 kDa

**Buffer:** PBS, containing 0.03% sodium azide.

**Concentration:** 1 mg/ml

**Note:** This product is for research use only.

For Reference Only