

# Anti-p44/42 MAPK (Erk1/2) Antibody

## RT1453



<b>Product Type:</b>	Rabbit polyclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human, Mouse, Rat
<b>Applications:</b>	WB, IP, IF
<b>Molecular Wt:</b>	ERK 1: 44 kDa, ERK 2: 42 kDa

**Description:** Mitogen-activated protein kinase (MAPK) signaling pathways involve two closely related MAP kinases, known as extracellular-signal-related kinase 1 (ERK 1, p44) and 2 (ERK 2, p42). Growth factors, steroid hormones, G protein-coupled receptor ligands and neurotransmitters can initiate MAPK signaling pathways. Activation of ERK 1 and ERK 2 requires phosphorylation by upstream kinases such as MAP kinasekinase (MEK), MEK kinase and Raf-1. ERK 1 and ERK 2 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. The human ERK 1 gene maps to chromosome 16p11.2 and encodes a 379 amino acid protein that shares 83% sequence identity to ERK 2.

**Immunogen:** Amino acids 101-172 mapping near the N-terminus of ERK 2 of human origin.

**Subcellular location:** Cytoplasm, Nucleus

**Database links:** SwissProt: P28482 Human

### Recommended Dilutions:

<b>WB</b>	1:100-1:1,000
<b>IP</b>	1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)
<b>IF</b>	1:50-1:500

**Storage Buffer:** 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**Storage Instruction:** Store at +4°C

**Purity:** Immunogen affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders: 0086-571-88062880

Technical: 0086-571-89986345

Service mail: support@huabio.cn

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Applications: WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

No Images

**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Attia-Vigneau, J., et al. 2014. Regeneration of human dermis by a multiheaded peptide. J. Invest. Dermatol. 134: 58-67.
2. Tsai, T., et al. 2013. 7,8-Dihydroxyflavone leads to survival of cultured embryonic motoneurons by activating intracellular signaling pathways. Mol. Cell. Neurosci. 56: 18-28.

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