

## Product datasheet for **TA378294**

### ERK2 (MAPK1) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ICC/IF, WB
Recommended Dilution:	WB,1:500 - 1:2000 IHC,1:50 - 1:100 IF,1:50 - 1:200 IP,1:50 - 1:100
Reactivity:	Mouse, Rat, Human
Modifications:	Phospho T202/Y204 + T185/Y187
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	A synthetic phosphorylated peptide around T185/Y187 of human ERK2 (NP_002736.3).
Formulation:	Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.
Concentration:	lot specific
Purification:	Affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C. Avoid freeze / thaw cycles.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	36kDa/41kDa/38kDa/40kDa/43kDa
Gene Name:	mitogen-activated protein kinase 1
Database Link:	<a href="#">Entrez Gene 5594 Human P28482</a>



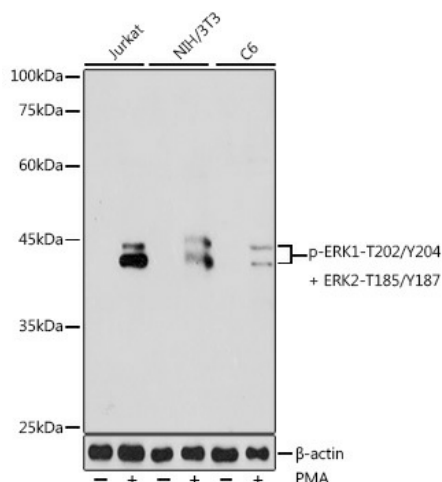
[View online »](#)

**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 for this gene. [provided by RefSeq, Jan 2014]

**Synonyms:**

ERK; ERK-2; ERK2; ERT1; MAPK2; p38; p40; p41; p41 mapk; p42-MAPK; P42MAPK; PRKM1; PRKM2

**Product images:**

Western blot analysis of extracts of various cell lines, using Phospho-ERK1-T202/Y204 + ERK2-T185/Y187 antibody (TA378294) at 1:1000 dilution. Jurkat cells and NIH/3T3 cells and C6 cells were treated by PMA/TPA (200 nM) at 37°C for 30 minutes after serum-starvation overnight. | Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. | Lysates/proteins: 25ug per lane. | Blocking buffer: 3% nonfat dry milk in TBST. | Detection: ECL Enhanced Kit. | Exposure time: 180s.