

Product datasheet for **TA378295**

ERK2 (MAPK1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB,1:500 - 1:2000
Reactivity:	Human, Mouse
Modifications:	Phospho T202/Y204+T185/Y187
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	A phospho specific peptide corresponding to residues surrounding T202/Y204+T185/Y187 of human ERK1+ERK2.
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.
Gene Name:	mitogen-activated protein kinase 1
Database Link:	Entrez Gene 5594 Human P28482



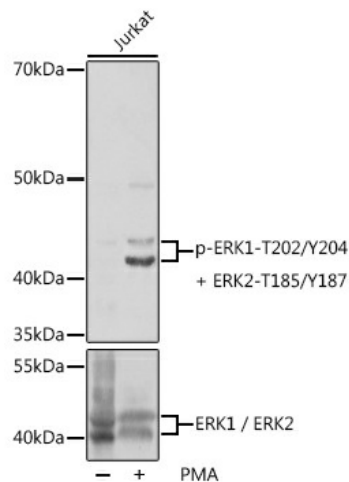
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Background:

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 Jurkat cells, using Phospho-ERK1-T202/Y204 + ERK2-T185/Y187 pAb (TA378295) at 1:1000 dilution or ERK1 / ERK2 antibody (A16686). Jurkat cells were treated by PMA/TPA (200 nM) at 37°C for 10 minutes. | Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. | Lysates/proteins: 25ug per lane. | Blocking buffer: 3% BSA. | Detection: ECL Basic Kit. | Exposure time: 10s.