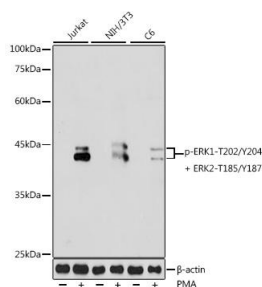


Cat. No:	ABP-0472
Conjugate:	Unconjugated
Size:	100 ug
Clone:	Poly
Concentration:	1mg/ml
Host:	Rb
Isotype:	IgG
Immunogen:	A synthetic phosphorylated peptide around T185/Y187 of human ERK2.
Reactivity:	Hu, Ms, Rt
Applications:	Western Blot: 1:500 - 1:2000 Immunohistochemistry: 1:50 - 1:100 Immunofluorescence: 1:50 - 1:200 Immunoprecipitation: 1:50 - 1:100
Molecular Weight:	42KDa/44KDa
Purification:	Affinity purification
Synonyms:	MAPK1/MAPK3

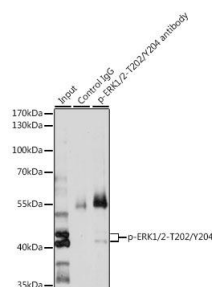
This gene encodes a member of the MAP kinase family. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), act as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation 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]

Background:

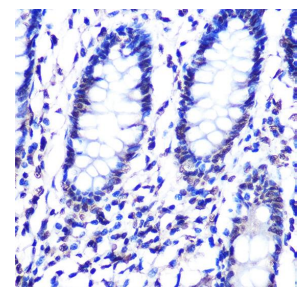
Form:	liquid
Buffer:	Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.
Storage:	Store at -20°C. Avoid freeze / thaw cycles.



Western blot analysis of extracts of various cell lines, using Phospho-ERK1-T202/Y204 + ERK2-T185/Y187 antibody 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



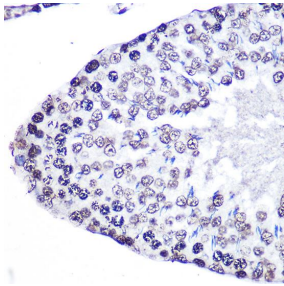
Immunoprecipitation analysis of 200ug extracts of Jurkat cells, using 3 ug Phospho-ERK1-T202/Y204 + ERK2-T185/Y187 pAb. Western blot was performed from the immunoprecipitate using Phospho-ERK1-T202/Y204 + ERK2-



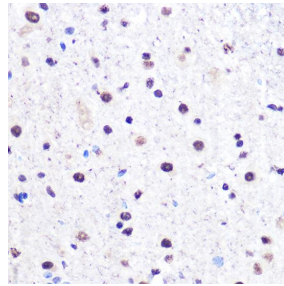
Immunohistochemistry of paraffin embedded human colon using Phospho-ERK1-T202/Y204 + ERK2-T185/Y187 Rabbit pAb at dilution of 1:100 (40x lens).

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 West Pico plus. Exposure time: 180s.

T185/Y187 pAb at a dilution of 1:1000. Jurkat cells were treated by PMA/TPA (200 nM) at 37°C for 10 minutes.



Immunohistochemistry of paraffin embedded rat testis using Phospho-ERK1- T202/Y204 + ERK2-T185/Y187 Rabbit pAb at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin embedded mouse spinal cord using Phospho-ERK1-T202/Y204 + ERK2-T185/Y187 Rabbit pAb at dilution of 1:100 (40x lens).

References

References for Phospho-ERK1-T202/Y204 + ERK2-T185/Y187 Rabbit pAb Product: Phospho-ERK1-T202/Y204 + ERK2-T185/Y187 Rabbit pAb Journal:Journal Of Ethnopharmacology Application: WB IF: 2.98 Species: Mus musculus PMID: 25978950 Title: Effect of Fructus Ligustri Lucidi on osteoblastic like cell-line MC3T3-E1 References for Phospho-ERK1-T202/Y204 + ERK2-T185/Y187 Rabbit pAb Product:Phospho-ERK1-T202/Y204 + ERK2-T185/Y187 Rabbit pAb Journal:Frontiers in Molecular Neuroscience Application:WB IF:3.72 Species:Rattus norvegicus PMID:32116549 Title: Lysophosphatidic Acid Induces Apoptosis of PC12 Cells Through LPA1 Receptor/LPA2 Receptor/MAPK Signaling Pathway References for Phospho-ERK1-T202/Y204 + ERK2-T185/Y187 Rabbit pAb Product:Phospho-ERK1-T202/Y204 + ERK2-T185/Y187 Rabbit pAb Journal:International Journal of Molecular Sciences Application:WB IF:4.18 Species:Mus musculus PMID:32183046 Title:Vaccarin Regulates Diabetic Chronic Wound Healing through FOXP2/AGGF1 Pathways References for Phospho-ERK1-T202/Y204 + ERK2-T185/Y187 Rabbit pAb Product:Phospho-ERK1-T202/Y204 + ERK2-T185/Y187 Rabbit pAb Journal:Frontiers in Cellular and Infection Microbiology Application: WB IF:3.51 Species:Homo sapiens PMID:32039055 Title:Hydroxycarboxylic Acid Receptor 2 Is a Zika Virus Restriction Factor That Can Be Induced by Zika Virus Infection Through the IRE1-XBP1 Pathway References for Phospho-ERK1-T202/Y204 + ERK2-T185/Y187 Rabbit pAb Product:Phospho-ERK1-T202/Y204 + ERK2-T185/Y187 Rabbit pAb Journal:Stem Cell Research & Therapy Application: WB IF:4.62 Species: Homo sapiens PMID:31900224 Title: Dopamine D1 receptor-mediated activation of the ERK signaling pathway is involved in the osteogenic differentiation of bone mesenchymal stem cells

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