

Datasheet for ABIN3019890
anti-ERK1 antibody (pTyr204)



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8 Images

1 Publication

Overview

Quantity:	100 µL
Target:	ERK1 (MAPK3)
Binding Specificity:	pTyr204
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ERK1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunoprecipitation (IP)

Product Details

Immunogen:	A synthetic phosphorylated peptide around Y204 of human ERK1 (NP_002737.2).
Sequence:	TEYVA
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Phosphorylated Antibodies

Target Details

Target:	ERK1 (MAPK3)
Alternative Name:	MAPK3 (MAPK3 Products)

Target Details

Background: The protein encoded by this gene is a member of the MAP kinase family. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), act in a signaling cascade that regulates various cellular processes such as proliferation, differentiation, and cell cycle progression in response to a variety of extracellular signals. This kinase is activated by upstream kinases, resulting in its translocation to the nucleus where it phosphorylates nuclear targets. Alternatively spliced transcript variants encoding different protein isoforms have been described.,ERK-1,ERK1,ERT2,HS44KDAP,HUMKER1A,P44ERK1,P44MAPK,PRKM3,p44-ERK1,p44-MAPK,MAPK3,Epigenetics & Nuclear Signaling,Translation Control,Regulation of eIF4 and p70 S6 Kinase,Signal Transduction,G protein signaling,G2/M DNA Damage Checkpoint,Kinase,Serine/threonine kinases,mTOR Signaling Pathway,ErbB-HER Signaling Pathway,MAPK-Erk Signaling Pathway,Cell Biology & Developmental Biology,Apoptosis,Mitochondrial Control of Apoptosis,Inhibition of Apoptosis,Cell Cycle,Centromere,Microtubules,TGF-b-Smad Signaling Pathway,ESC Pluripotency and Differentiation,Endocrine & Metabolism,Insulin Receptor Signaling Pathway,Warburg Effect,Immunology & Inflammation,B Cell Receptor Signaling Pathway,T Cell Receptor Signaling Pathway,IL-6 Receptor Signaling Pathway,Neuroscience,Neurodegenerative Diseases,Amyloid Plaque and Neurofibrillary Tangle Formation in Alzheimer's Disease,Stem Cells,Cardiovascular,Angiogenesis,Protein phosphorylation,MAPK3

Molecular Weight: 38 kDa/40 kDa/43 kDa

Gene ID: 5595

UniProt: [P27361](#)

Pathways: [MAPK Signaling](#), [RTK Signaling](#), [Interferon-gamma Pathway](#), [Fc-epsilon Receptor Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Response to Growth Hormone Stimulus](#), [Activation of Innate immune Response](#), [Cellular Response to Molecule of Bacterial Origin](#), [Hepatitis C](#), [Protein targeting to Nucleus](#), [Toll-Like Receptors Cascades](#), [Signaling Events mediated by VEGFR1 and VEGFR2](#), [Signaling of Hepatocyte Growth Factor Receptor](#), [VEGFR1 Specific Signals](#), [S100 Proteins](#)

Application Details

Application Notes: WB,1:500 - 1:2000,IHC,1:50 - 1:100,IF,1:100 - 1:200,IP,1:50 - 1:100

Restrictions: For Research Use only

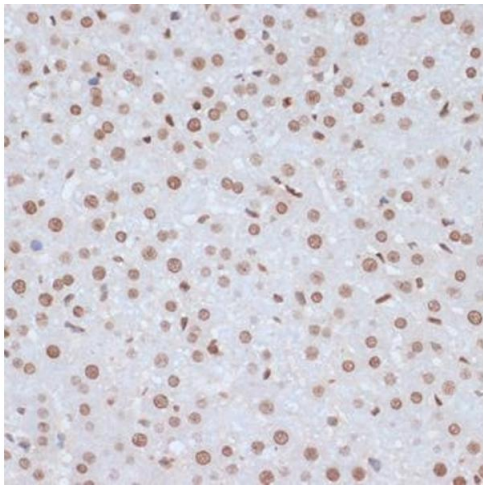
Handling

Buffer:	PBS with 0.02 % sodium azide, 50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Publications

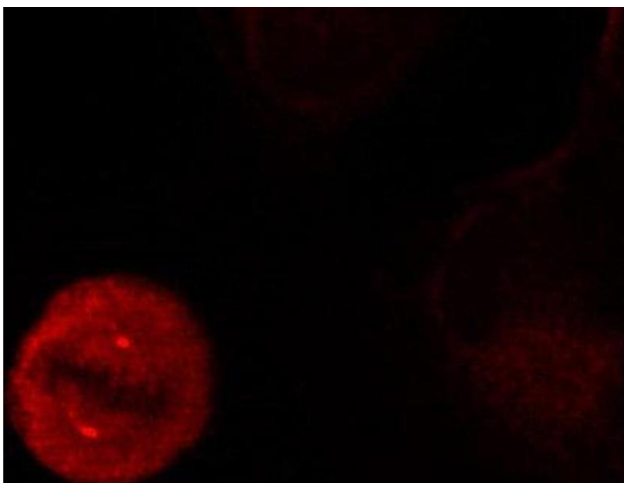
Product cited in: He, Zhao, Anees, Li, Ashraf, Chen, Song, Chen, Cao, Ye: "p21-Activated Kinase 4 Signaling Promotes Japanese Encephalitis Virus-Mediated Inflammation in Astrocytes." in: **Frontiers in cellular and infection microbiology**, Vol. 7, pp. 271, (2018) ([PubMed](#)).

Images



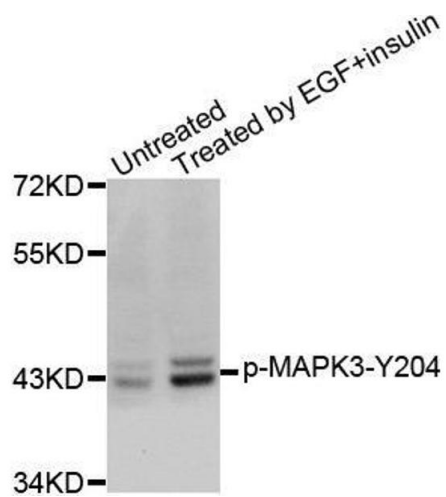
Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded rat liver using Phospho-ERK1-Y204 antibody (ABIN3019889, ABIN3019890, ABIN3019891 and ABIN1681795) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunofluorescence

Image 2. Immunofluorescence staining of methanol-fixed HeLa cells showing centrosome and nuclear staining using Phospho-MAPK3-Y204 antibody..



Western Blotting

Image 3. Western blot analysis of extracts from SK-BR-3 cells, using Phospho-MAPK3-Y204 antibody.

Please check the [product details page](#) for more images. Overall 8 images are available for ABIN3019890.