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Datasheet for ABIN3020728

# anti-ERK2 antibody (AA 200-300)





**Publications** 



Go to Product page

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Overview	
Quantity:	100 μL
Target:	ERK2 (MAPK1)
Binding Specificity:	AA 200-300
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ERK2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)
Product Details	
Immunogen:	A synthetic peptide corresponding to a sequence within amino acids 200-300 of human ERK2 (NP_620407.1).
Sequence:	LNSKGYTKSI DIWSVGCILA EMLSNRPIFP GKHYLDQLNH ILGILGSPSQ EDLNCIINLK ARNYLLSLPH KNKVPWNRLF PNADSKALDL LDKMLTFNPH K
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Target Details	
Target:	ERK2 (MAPK1)

**Target Details** MAPK1 (MAPK1 Products) Alternative Name: 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.,ERK,ERK-2,ERK2,ERT1,MAPK2,P42MAPK,PRKM1,PRKM2,p38,p40,p41,p41mapk,p42-MAPK,MAPK1,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, Stem Cells, Cardiovascular, Angiogenesis, MAPK1 Molecular Weight: 36 kDa/41 kDa 5594 Gene ID: UniProt: P28482 MAPK Signaling, RTK Signaling, Apoptosis, Interferon-gamma Pathway, Fc-epsilon Receptor Pathways: 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, Monocarboxylic Acid Catabolic Process, Autophagy, G-

protein mediated Events, Signaling Events mediated by VEGFR1 and VEGFR2, Signaling of

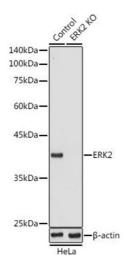
Hepatocyte Growth Factor Receptor, VEGFR1 Specific Signals, BCR Signaling, S100 Proteins

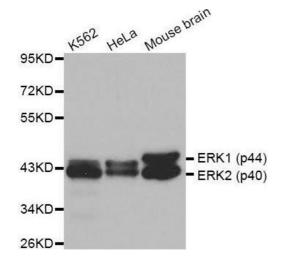
# **Application Details**

Application Notes:	WB,1:500 - 1:2000,IF,1:50 - 1:200	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
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.	
Handling Advice:	Avoid freeze / thaw cycles	
Storage:	-20 °C	
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.	
Publications		
Product cited in:	Wu, Zhang, Qi, Zhang, Li, Li, Lin, Bai, Liu, Chen, Yang, Xu, Zhang, Yang: "Nicotine promotes	
	atherosclerosis via ROS-NLRP3-mediated endothelial cell pyroptosis." in: Cell death & disease,	
	Vol. 9, Issue 2, pp. 171, (2018) (PubMed).	
	Du, Qiao, Chen, Chen, Liu, Lin, Wang, Xie: "Toll-Like Receptor 4 Mediates Methamphetamine-	
	Induced Neuroinflammation through Caspase-11 Signaling Pathway in Astrocytes." in: Frontiers	

There are more publications referencing this product on: Product page

in molecular neuroscience, Vol. 10, pp. 409, (2017) (PubMed).





# **Western Blotting**

Image 1. Western blot analysis of extracts from normal (control) and ERK2 knockout (KO) HeLa cells, using ERK2 antibody (ABIN3020727, ABIN3020728, ABIN3020729 and ABIN6213694) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 μg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 10s.

## **Immunofluorescence**

**Image 2.** Immunofluorescence analysis of A549 cell using ERK1/2 antibody. Blue: DAPI for nuclear staining.

# **Western Blotting**

**Image 3.** Western blot analysis of extracts of various cell lines, using ERK1/2 antibody.

Please check the product details page for more images. Overall 9 images are available for ABIN3020728.