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Datasheet for ABIN6143516 anti-ERK2 antibody (AA 200-300)

5 Images

1 Publication



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), Immunohistochemistry (IHC), Immunofluorescence (IF)
Product Details	
Immunogen:	A synthetic peptide corresponding to a sequence within amino acids 200-300 of human ERK2
	(NP_620407.1).
Sequence:	(NP_620407.1). LNSKGYTKSI DIWSVGCILA EMLSNRPIFP GKHYLDQLNH ILGILGSPSQ EDLNCIINLK
Sequence:	(NP_620407.1). LNSKGYTKSI DIWSVGCILA EMLSNRPIFP GKHYLDQLNH ILGILGSPSQ EDLNCIINLK ARNYLLSLPH KNKVPWNRLF PNADSKALDL LDKMLTFNPH K
Sequence: Isotype:	(NP_620407.1). LNSKGYTKSI DIWSVGCILA EMLSNRPIFP GKHYLDQLNH ILGILGSPSQ EDLNCIINLK ARNYLLSLPH KNKVPWNRLF PNADSKALDL LDKMLTFNPH K IgG
Sequence: Isotype: Cross-Reactivity:	(NP_620407.1). LNSKGYTKSI DIWSVGCILA EMLSNRPIFP GKHYLDQLNH ILGILGSPSQ EDLNCIINLK ARNYLLSLPH KNKVPWNRLF PNADSKALDL LDKMLTFNPH K IgG Human, Mouse, Rat
Sequence: Isotype: Cross-Reactivity: Characteristics:	(NP_620407.1). LNSKGYTKSI DIWSVGCILA EMLSNRPIFP GKHYLDQLNH ILGILGSPSQ EDLNCIINLK ARNYLLSLPH KNKVPWNRLF PNADSKALDL LDKMLTFNPH K IgG Human, Mouse, Rat Polyclonal Antibodies
Sequence: Isotype: Cross-Reactivity: Characteristics: Target Details	(NP_620407.1). LNSKGYTKSI DIWSVGCILA EMLSNRPIFP GKHYLDQLNH ILGILGSPSQ EDLNCIINLK ARNYLLSLPH KNKVPWNRLF PNADSKALDL LDKMLTFNPH K IgG Human, Mouse, Rat Polyclonal Antibodies

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Target Details		
Alternative Name:	MAPK1 (MAPK1 Products)	
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	
Gene ID:	5594	
UniProt:	P28482	
Pathways:	MAPK Signaling, RTK Signaling, Apoptosis, Interferon-gamma Pathway, Fc-epsilon Receptor	
	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	

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Application Details	
Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:200,IF,1:50 - 1:200
Comment:	HIGH QUALITY
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.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.
Publications	
Product cited in:	Kumar, Wang, Liu, Ding, Dong, Zheng, Ye, Liu: "Hypoxia-Induced Mitogenic Factor Promotes
	Cardiac Hypertrophy via Calcium-Dependent and Hypoxia-Inducible Factor-1 $lpha$ Mechanisms." in:
	Hypertension (Dallas, Tex. : 1979), Vol. 72, Issue 2, pp. 331-342, (2018) (PubMed).
	Fan, Long, Yan, Wang, Shi, Bao, Hu, Li, Chen, Zheng, Yan: "Dietary leucine supplementation alters
	energy metabolism and induces slow-to-fast transitions in longissimus dorsi muscle of
	weanling piglets." in: The British journal of nutrition, Vol. 117, Issue 9, pp. 1222-1234, (2017) (
	PubMed).



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry of paraffin-embedded human prostate using MAPK1 antibody.

Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Immunohistochemistry of paraffin-embedded human stomach using MAPK1 antibody.

Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Immunohistochemistry of paraffin-embedded mouse brain using MAPK1 antibody.

Please check the product details page for more images. Overall 5 images are available for ABIN6143516.

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