antibodies - online.com







anti-ERK1/2 antibody (AA 301-358)





Publications



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Quantity:	100 μL
Target:	ERK1/2 (MAPK1/3)
Binding Specificity:	AA 301-358
Reactivity:	Human, Mouse, Rat, Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ERK1/2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)),
	Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded
	Sections) (IF (p)), Flow Cytometry (FACS), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from mouse ERK2
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Pig, Rat
Predicted Reactivity:	Dog,Cow,Horse,Chicken,Rabbit
Purification:	Purified by Protein A.

Target Details

Target: ERK1/2 (MAPK1/3)

Target Details

Restrictions:

ERK1 + ERK2 (MAPK1/3 Products) Alternative Name: Background: Synonyms: Mitogen-activated protein kinase 1, MAP kinase 1, MAPK 1, ERT1, Extracellular signal-regulated kinase 2, ERK-2, MAP kinase isoform p42, p42-MAPK, Mitogen-activated protein kinase 2, MAP kinase 2, MAPK 2, Mapk1, Erk2, Mapk, Prkm1 Background: Serine/threonine kinase which acts as an essential component of the MAP kinase signal transduction pathway. MAPK1/ERK2 and MAPK3/ERK1 are the 2 MAPKs which play an important role in the MAPK/ERK cascade. They participate also in a signaling cascade initiated by activated KIT and KITLG/SCF. Depending on the cellular context, the MAPK/ERK cascade mediates diverse biological functions such as cell growth, adhesion, survival and differentiation through the regulation of transcription, translation, cytoskeletal rearrangements. The MAPK/ERK cascade plays also a role in initiation and regulation of meiosis, mitosis, and postmitotic functions in differentiated cells by phosphorylating a number of transcription factors. About 160 substrates have already been discovered for ERKs. Many of these substrates are localized in the nucleus, and seem to participate in the regulation of transcription upon stimulation. However, other substrates are found in the cytosol as well as in other cellular organelles, and those are responsible for processes such as translation, mitosis and apoptosis. Moreover, the MAPK/ERK cascade is also involved in the regulation of the endosomal dynamics, including lysosome processing and endosome cycling through the perinuclear recycling compartment (PNRC), as well as in the fragmentation of the Golgi apparatus during mitosis. Gene ID: 26413 UniProt: P63085 **Application Details Application Notes:** WB 1:300-5000 ELISA 1:500-1000 FCM 1:20-100 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200

For Research Use only

Handling

Format:	Liquid
Concentration:	1 μg/μL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

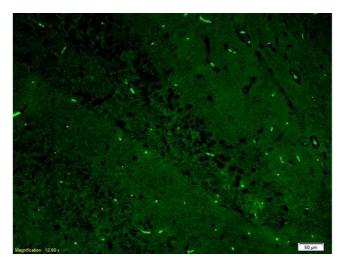
Product cited in:

Chu, Zhao, Feng, Zhang, Liu, Cheng, Li, Shen, Cao, Li, Min: "MicroRNA-126 participates in lipid metabolism in mammary epithelial cells." in: **Molecular and cellular endocrinology**, Vol. 454, pp. 77-86, (2017) (PubMed).

Du, Su, Ye, Wang, Huang, Gong: "Pinellia ternata Attenuates Mucus Secretion and Airway Inflammation after Inhaled Corticosteroid Withdrawal in COPD Rats." in: **The American journal of Chinese medicine**, Vol. 44, Issue 5, pp. 1027-41, (2016) (PubMed).

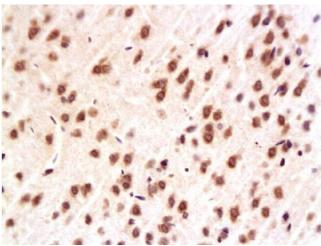
Sun, Wang, Fu, Chen, Wang, Li, Xing, Li: "Magnolia officinalis Extract Contains Potent Inhibitors against PTP1B and Attenuates Hyperglycemia in db/db Mice." in: **BioMed research international**, Vol. 2015, pp. 139451, (2015) (PubMed).

Sun, Fu, Liu, Wang, Huo, Guo, Gao, Li, Hu: "Hypoglycemic effect and mechanism of honokiol on type 2 diabetic mice." in: **Drug design, development and therapy**, Vol. 9, pp. 6327-42, (2015) (PubMed).



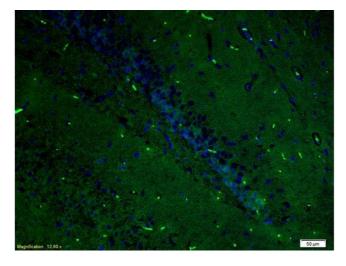
Immunofluorescence

Image 1. Formalin-fixed and paraffin-embedded rat brain labeled with Anti-ERK2/MAPK1 Polyclonal Antibody, Unconjugated (ABIN723725) 1:200, overnight at 4°C, The secondary antibody was Goat Anti-Rabbit IgG, FITC conjugated used at 1:200 dilution for 40 minutes at 37°C.



Immunohistochemistry

Image 2. Formalin-fixed and paraffin embedded rat hippocampus labeled with Anti-ERK2/MAPK1 Polyclonal Antibody, Unconjugated (ABIN723725) at 1:200, followed by conjugation to the secondary antibody and DAB staining



Immunofluorescence

Image 3. Formalin-fixed and paraffin-embedded rat brain labeled with Anti-ERK2/MAPK1 Polyclonal Antibody, Unconjugated (ABIN723725) 1:200, overnight at 4°C, The secondary antibody was Goat Anti-Rabbit IgG, FITC conjugated used at 1:200 dilution for 40 minutes at 37°C.

Please check the product details page for more images. Overall 6 images are available for ABIN723725.