



Datasheet for ABIN682933

anti-ERK1/2 antibody (pThr202, pTyr204)

3 Images

11 Publications



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Overview

Quantity:	100 µL
Target:	ERK1/2 (MAPK1/3)
Binding Specificity:	pThr202, pTyr204
Reactivity:	Human, Mouse, Rat, Cow
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)), Immunocytochemistry (ICC)

Product Details

Immunogen:	KLH conjugated synthetic phosphopeptide derived from human p44/42 MAPK around the phosphorylation site of (Thr202/Tyr204)
Isotype:	IgG
Cross-Reactivity:	Dog, Human, Mouse, Rat
Predicted Reactivity:	Cow,Pig,Horse,Chicken,Rabbit,Guinea Pig
Purification:	Purified by Protein A.

Target Details

Target:	ERK1/2 (MAPK1/3)
Alternative Name:	Erk1/2 (MAPK1/3 Products)
Sub Type:	Cocktail
Background:	<p>Synonyms: ERK1, ERT2, ERK-1, PRKM3, P44ERK1, P44MAPK, HS44KDAP, HUMKER1A, p44-ERK1, p44-MAPK, Mitogen-activated protein kinase 3, MAP kinase 3, MAPK 3, Extracellular signal-regulated kinase 1, Insulin-stimulated MAP2 kinase, MAP kinase isoform p44, Microtubule-associated protein 2 kinase, MAPK3</p> <p>Background: p44/42 MAP Kinase(Thr202), ERK (extracellular signal regulated kinase), also known as MAPK (mitogen activated protein kinase) has two closely related isoforms of 44 kDa and 42 kDa, respectively. These kinases belong to a family of serine/threonine kinases that are activated upon treatment of cells with a large variety of stimuli including mitogens, hormones, growth factors, cytokines, and bioactive peptides. Cell stimulation induces the activation of a signaling cascade, the downstream effects of which have been linked to the regulation of cell growth and differentiation as well as the cytoskeleton. ERK1 and ERK2 are phosphorylated within the activation loop on both a Threonine and a Tyrosine residue (within a Thr-Glu-Tyr motif) by MEKs (MAPK/ERK kinases), thereby greatly elevating the activity of ERK1&2.</p>
Gene ID:	5595
UniProt:	P27361

Application Details

Application Notes:	WB 1:100-1000 IHC-P 1:100-500 IF(IHC-P) 1:50-200
Restrictions:	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:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE, which

Handling

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: Jeon, Han, Lee, Park, Kim, Yoo, Lee: "Activation of the complement system in an osteosarcoma cell line promotes angiogenesis through enhanced production of growth factors." in: **Scientific reports**, Vol. 8, Issue 1, pp. 5415, (2019) ([PubMed](#)).

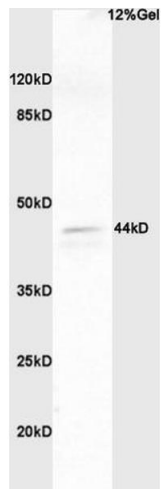
Zhang, Liu, Wang, Xie, Sheng, Zhang, Yuan, Han, Weng: "Seasonal Expression of Oxytocin and Oxytocin Receptor in the Scented Gland of Male Muskrat (*Ondatra zibethicus*)." in: **Scientific reports**, Vol. 7, Issue 1, pp. 16627, (2018) ([PubMed](#)).

Zheng, Wang, Zou, Jing, Yang, Li, Wang: "Ginsenoside Rb1 improves cardiac function and remodeling in heart failure." in: **Experimental animals**, Vol. 66, Issue 3, pp. 217-228, (2017) ([PubMed](#)).

Wang, Chen, Tang, Jiang, Ji: "AMD3100 Attenuates Matrix Metalloprotease-3 and -9 Expressions and Prevents Cartilage Degradation in a Monosodium Iodo-Acetate-Induced Rat Model of Temporomandibular Osteoarthritis." in: **Journal of oral and maxillofacial surgery : official journal of the American Association of Oral and Maxillofacial Surgeons**, Vol. 74, Issue 5, pp. 927.e1-927.e13, (2016) ([PubMed](#)).

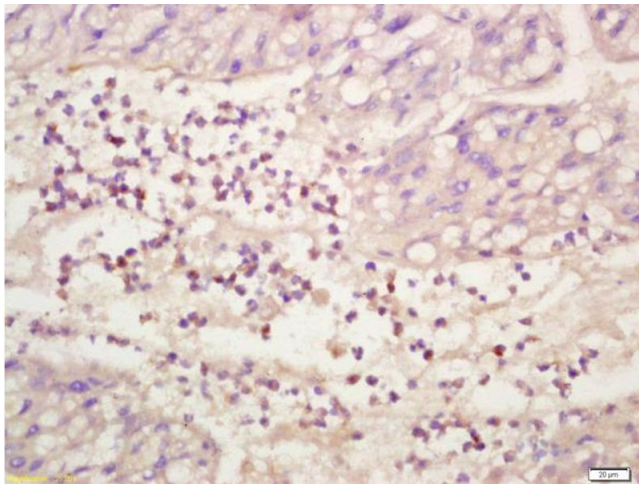
Liu, Jiang, Zhang, Li, Li, Xie, Hu: "Pulmonary artery denervation improves pulmonary arterial hypertension induced right ventricular dysfunction by modulating the local renin-angiotensin-aldosterone system." in: **BMC cardiovascular disorders**, Vol. 16, Issue 1, pp. 192, (2016) ([PubMed](#)).

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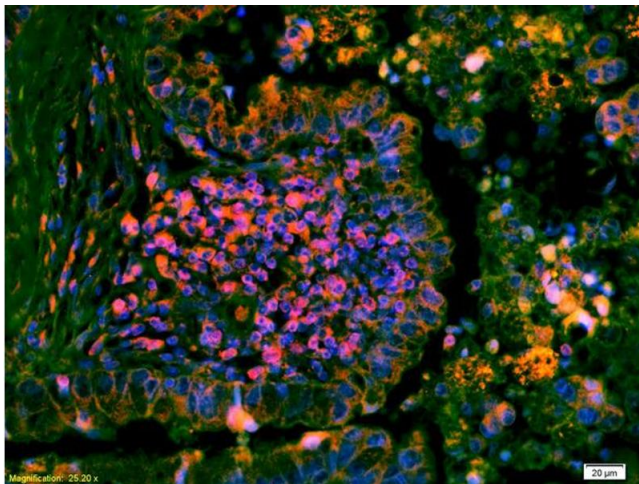
SDS-PAGE

Image 1. Lane 1: human colon carcinoma lysates probed with Anti phospho-ERK1/2(Thr202 + Tyr204) Polyclonal Antibody, Unconjugated (ABIN682933) at 1:200 in 4 °C. Followed by conjugation to secondary antibody at 1:3000 90min in 37 °C. Predicted band 44kD. Observed band size: 44kD



Immunohistochemistry

Image 2. Formalin-fixed and paraffin embedded human liver labeled with Anti-phospho-ERK1/2(Thr202 + Tyr204) Polyclonal Antibody, Unconjugated (ABIN682933) at 1:200 followed by conjugation to the secondary antibody and DAB staining



Immunofluorescence

Image 3. Formalin-fixed and paraffin embedded human lung carcinoma labeled with Anti-phospho-ERK1/2(Thr202 + Tyr204) Polyclonal Antibody, Unconjugated (ABIN682933) at 1:200 followed by conjugation to the secondary antibody Goat Anti-Rabbit IgG, Cy3 conjugated used at 1:200 dilution for 40 minutes at 37°C and DAPI staining