

Datasheet for ABIN687727

anti-ERK1/2 antibody (pThr183, pTyr185)

3 Images

10 Publications

[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	ERK1/2 (MAPK1/3)
Binding Specificity:	pThr183, pTyr185
Reactivity:	Human, Mouse, Rat
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)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic phosphopeptide derived from mouse ERK2 around the phosphorylation site of Thr183 and Tyr 185
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Dog,Cow,Pig,Horse,Chicken,Rabbit,Guinea Pig
Purification:	Purified by Protein A.

Target Details

Target:	ERK1/2 (MAPK1/3)
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Target Details

Alternative Name:	ERK1+ ERK2 (MAPK1/3 Products)
Background:	<p>Synonyms: ERK, Erk2, MAPK2, PRKM2, Prkm1, C78273, p41mapk, p42mapk, AA47128, AU18647, 93612K14Rik, 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, Mapk</p> <p>Background: Acts as a transcriptional repressor. Binds to a [GC]AAA[GC] consensus sequence. Repress the expression of interferon gamma-induced genes. Seems to bind to the promoter of CCL5, DMP1, IFIH1, IFITM1, IRF7, IRF9, LAMP3, OAS1, OAS2, OAS3 and STAT1. Transcriptional activity is independent of kinase activity (By similarity).</p>
Gene ID:	26413
UniProt:	P63085

Application Details

Application Notes:	WB 1:300-5000 ELISA 1:500-1000 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
Restrictions:	For Research Use only

Handling

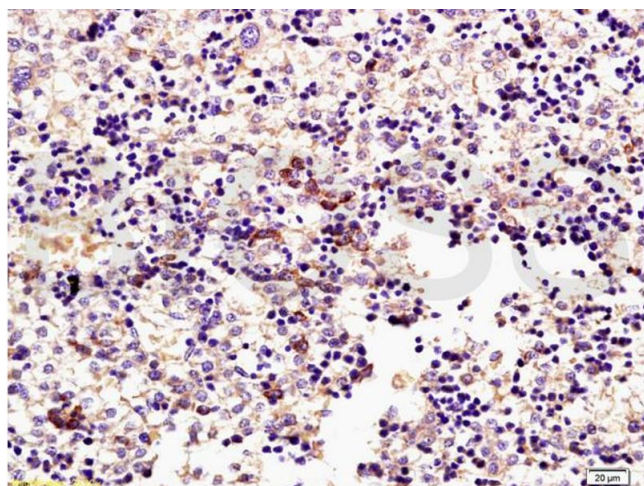
Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment: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

Expiry Date: 12 months

Publications

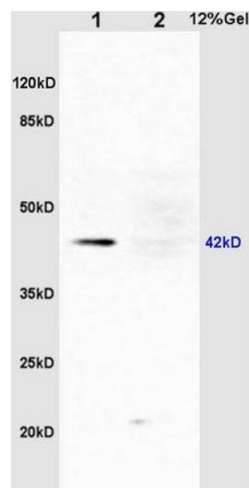
- Product cited in:
- Zhao, Han, Hong, Sun: "Adipose differentiation-related protein knockdown inhibits vascular smooth muscle cell proliferation and migration and attenuates neointima formation." in: **Molecular medicine reports**, Vol. 16, Issue 3, pp. 3079-3086, (2018) ([PubMed](#)).
- Liu, Zhang, Han, Wang, Liu, Zhang, Zhou, Xiang: "Inhibition of BTK protects lungs from trauma-hemorrhagic shock-induced injury in rats." in: **Molecular medicine reports**, Vol. 16, Issue 1, pp. 192-200, (2017) ([PubMed](#)).
- Xu, Deng, Wang, Chen, Li, Fan: "RKTG overexpression inhibits proliferation and induces apoptosis of human leukemia cells via suppression of the ERK and PI3K/AKT signaling pathways." in: **Oncology letters**, Vol. 14, Issue 1, pp. 965-970, (2017) ([PubMed](#)).
- Li, Wang, Zhou, Zhang, Le, He: "Downregulation of BRAF-activated non-coding RNA suppresses the proliferation, migration and invasion, and induces apoptosis of hepatocellular carcinoma cells." in: **Oncology letters**, Vol. 14, Issue 4, pp. 4751-4757, (2017) ([PubMed](#)).
- There are more publications referencing this product on: [Product page](#)

Images



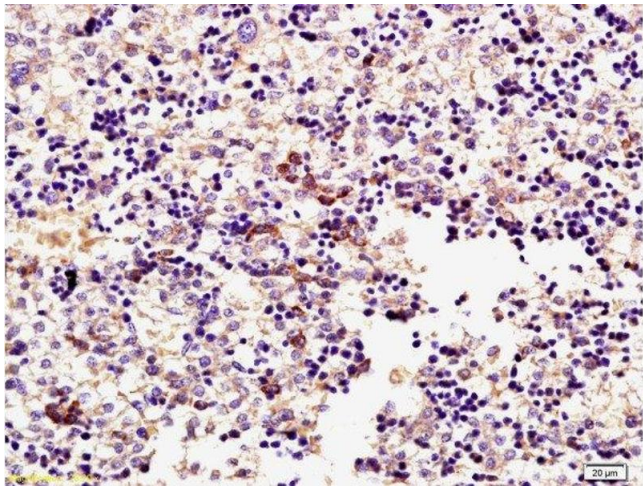
Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded mouse embryo tissue labeled with Rabbit Anti-ERK1 (Thr203/Tyr205) + ERK2 (Thr183/Tyr185) Polyclonal Antibody, Unconjugated (ABIN687727) at 1:200 followed by conjugation to the secondary antibody and DAB staining



SDS-PAGE

Image 2. L1 rat liver lysates L2 rat kidney lysates probed with Rabbit Anti-ERK1 (Thr203/Tyr205) + ERK2 (Thr183/Tyr185) Polyclonal Antibody, Unconjugated (ABIN687727) at 1:200 overnight at 4 °C. Followed by conjugation to secondary antibody at 1:3000 for 90 min at 37 °C. Predicted band 42kD. Observed band size: 42kD



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Formalin-fixed and paraffin embedded mouse embryo tissue labeled with Rabbit Anti-ERK1 (Thr203/Tyr205) + ERK2 (Thr183/Tyr185) Polyclonal Antibody, Unconjugated at 1:200 followed by conjugation to the secondary antibody and DAB staining