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anti-ERK1/2 antibody (pThr183, pTyr185)

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Publications



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Quantity:	100 μL
Target:	ERK1/2 (MAPK1/3)
Binding Specificity:	pThr183, pTyr185
Reactivity:	Human, Mouse, Rat, Chicken
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 phosphopeptide derived from human ERK2 around the
	phosphorylation site of Thr183/Tyr185
Isotype:	IgG
Cross-Reactivity:	Chicken, Human, Mouse, Rat
Predicted Reactivity:	Dog,Cow,Pig,Horse,Rabbit,Guinea Pig
Purification:	Purified by Protein A.
Target Details	
Target:	ERK1/2 (MAPK1/3)

Target Details

Alternative Name:	ERK1+ERK2 (MAPK1/3 Products)	
Background:	Synonyms: ERK, p38, p4, p41, ERK2, ERT1, ERK-2, MAPK2, PRKM1, PRKM2, P42MAPK,	
	p41mapk, p42-MAPK, ERK1, ERT2, ERK-1, PRKM3, P44ERK1, P44MAPK, HS44KDAP,	
	HUMKER1A, p44-ERK1, p44-MAPK, Mitogen-activated protein kinase 1, MAP kinase 1, MAPK 1,	
	Extracellular signal-regulated kinase 2, MAP kinase isoform p42, Mitogen-activated protein	
	kinase 2, MAP kinase 2, MAPK 2, MAPK1	
	Background: The protein encoded by this gene is 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.	
	Two alternatively spliced transcript variants encoding the same protein, but differing in the	
	UTRs, have been reported for this gene.	
Gene ID:	55945595	
UniProt:	P28482	
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	
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.	

Handling

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

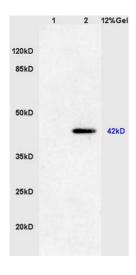
Product cited in:

Hirata, Katayama, Tsuji, Imura, Natsume, Sugahara, Kunieda, Nakamura, Otsuki: "Homeobox family Hoxc localization during murine palate formation." in: **Congenital anomalies**, Vol. 56, Issue 4, pp. 172-9, (2016) (PubMed).

Iriyama, Hatta, Takei: "Direct effect of dasatinib on signal transduction pathways associated with a rapid mobilization of cytotoxic lymphocytes." in: **Cancer medicine**, Vol. 5, Issue 11, pp. 3223-3234, (2016) (PubMed).

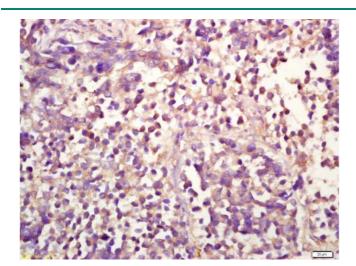
Wang, Fu, Jiang, Yu, Wang, Han, Liu, Wang: "Bone marrow mononuclear cell transplantation promotes therapeutic angiogenesis via upregulation of the VEGF-VEGFR2 signaling pathway in a rat model of vascular dementia." in: **Behavioural brain research**, Vol. 265, pp. 171-80, (2014) (PubMed).

Images



SDS-PAGE

Image 1. Lane 1: mouse heart lysates Lane 2: mouse S/P20 cell lysates probed with Anti phospho-ERK1(Thr202/Tyr204) +ERK2(Thr183/Tyr185) Polyclonal Antibody, Unconjugated (ABIN732458) at 1:200 in 4 °C. Followed by conjugation to secondary antibody at 1:3000 90min in 37 °C. Predicted band 42kD. Observed band size:42kD



Immunohistochemistry

Image 2. Formalin-fixed and paraffin embedded human lung carcinoma labeled with Anti-phospho-ERK1(Thr202/Tyr204) +ERK2(Thr183/Tyr185) Polyclonal Antibody, Unconjugated (ABIN732458) at 1:200 followed by conjugation to the secondary antibody and DAB staining