

For Research Use Only

ERK1/2 Polyclonal antibody

Catalog Number: 16443-1-AP **424 Publications**



Basic Information

Catalog Number: 16443-1-AP	GenBank Accession Number: BC017832	Purification Method: Antigen affinity purification
Concentration: 400 µg/ml	GeneID (NCBI): 5594	Recommended Dilutions: WB: 1:1000-1:4000
Source: Rabbit	UNIPROT ID: P28482	IHC: 1:50-1:500
Isotype: IgG	Full Name: mitogen-activated protein kinase 1	IF/ICC: 1:10-1:100
Immunogen Catalog Number: AG9772	Calculated MW: 360 aa, 41 kDa	
	Observed MW: 38-44 kDa	

Applications

Tested Applications: WB, IF, IHC, ELISA	Positive Controls:
Cited Applications: WB, IHC, IF, IP	WB: NIH/3T3 cells, A431 cells, mouse kidney tissue, HEK-293 cells, HeLa cells, PC-3 cells, rat kidney tissue, mouse brain tissue, rat brain tissue
Species Specificity: human, mouse, rat	IHC: human liver tissue, human kidney tissue
Cited Species: human, mouse, rat, pig, chicken, sheep, eriocheir sinensis	IF/ICC: HeLa cells,
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

ERK1 and ERK2 belongs to the protein kinase superfamily. It is involved in both the initiation and regulation of meiosis, mitosis, and postmitotic functions in differentiated cells by phosphorylating a number of transcription factors such as ELK-1. ERK1/2 catalized the reaction: ATP + a protein = ADP + a phosphoprotein. It is activated by tyrosine phosphorylation in response to INS and NGF. This antibody can recognize both ERK1 and ERK2 with the molecular mass of 38-44 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Xin-Sen Chen	36182039	Pharmacol Res	WB
YanHua Fan	36174847	Fitoterapia	WB
Weihua Xu	31702033	Mol Med Rep	WB

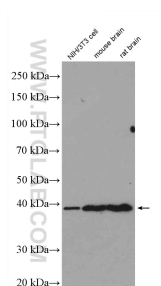
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

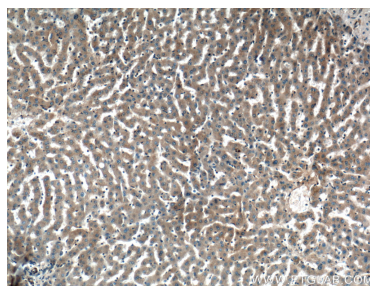
For technical support and original validation data for this product please contact:
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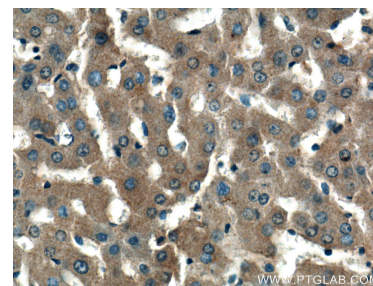
Selected Validation Data



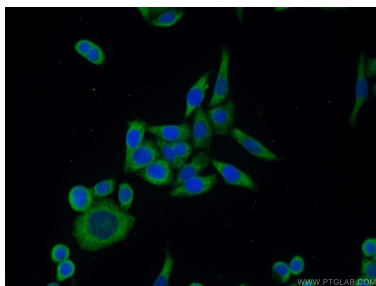
Various lysates were subjected to SDS PAGE followed by western blot with 16443-1-AP (ERK1/2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 16443-1-AP (ERK1/2 Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 16443-1-AP (ERK1/2 Antibody) at dilution of 1:200 (under 40x lens).



Immunofluorescent analysis of HeLa cells using 16443-1-AP (ERK1/2 antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L).