For Research Use Only

ERK1/2 Polyclonal antibody

Catalog Number: 11257-1-AP   Featured Product   244 Publications

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Basic Information

Catalog Number:
11257-1-AP

Size:
150ul , Concentration: 500 μg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG1759

GenBank Accession Number:
BC013992

GeneID (NCBI):
5595

UNIPROT ID:
P27361

Full Name:
mitogen-activated protein kinase 3

Calculated MW:
43 kDa

Observed MW:
38-44 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:2000-1:16000
IHC 1:100-1:400
IF 1:10-1:100

Applications

Tested Applications:
WB, IF, FC, IHC, ELISA

Cited Applications:
WB, IF, IHC

Species Specificity:
human, mouse, Rat

Cited Species:
human, rat, sheep, mouse, pig, canine

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : NIH/3T3 cells, HeLa cells, HEK-293 cells, PC-12 cells, C6 cells, mouse brain tissue, mouse lung tissue

IHC : human colon cancer tissue, human breast cancer tissue

IF : A375 cells, MCF-7 cells

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
Xiao-Feng Zhu	36180975	Phytother Res	WB
Hui Wang	36243659	Hepatobiliary Pancreat Dis Int	WB
Hongxia Li	34558311	Epigenomics	WB

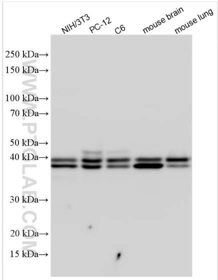
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

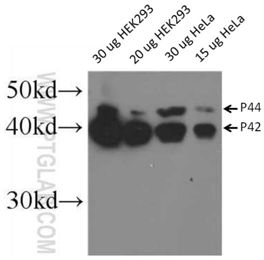
***** 20ul sizes contain 0.1% BSA**

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

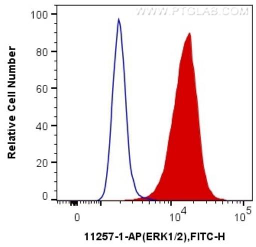
Selected Validation Data



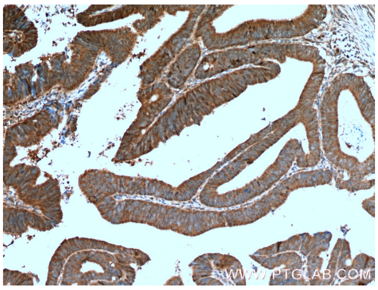
Various lysates were subjected to SDS PAGE followed by western blot with 11257-1-AP (ERK1/2 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



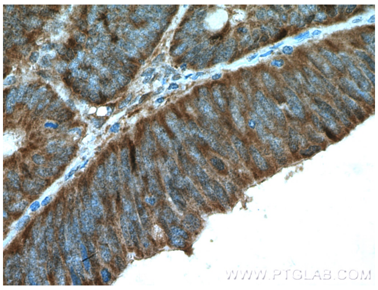
WB result of ERK1/2 antibody (11257-1-AP, 1:1000) with HeLa and HEK293 cells.



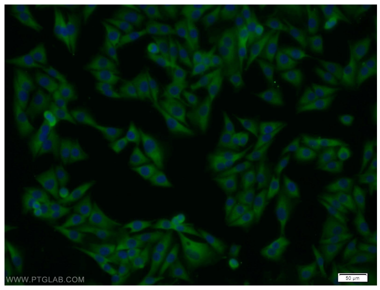
1X10^6 HeLa cells were intracellularly stained with 0.4 ug Anti-Human ERK1/2 (11257-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 11257-1-AP (ERK1/2 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 11257-1-AP (ERK1/2 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of A375 cells using 11257-1-AP (ERK1/2 antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).