For Research Use Only

# ERK1/2 Recombinant monoclonal antibody, PBS Only

Catalog Number:83533-1-PBS

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## Basic Information

Catalog Number:
83533-1-PBS

Size:
100ug , Concentration: 1 mg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG20350

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:
Protein A purification

CloneNo.:
4P8

## Applications

Tested Applications:
WB, IHC, IHC-Autostainer, IF/ICC, FC (Intra), ELISA

Species Specificity:
human, mouse, rat

## 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.

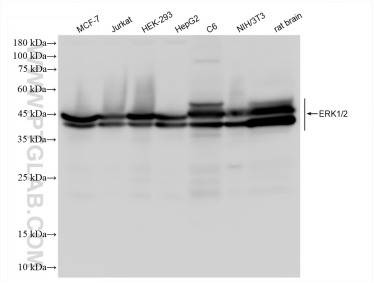
## Storage

Storage:
Store at -80°C.
Storage Buffer:
PBS only, pH7.3

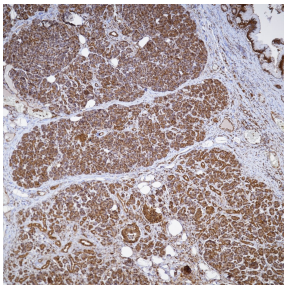
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

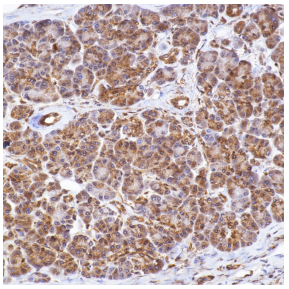
## Selected Validation Data



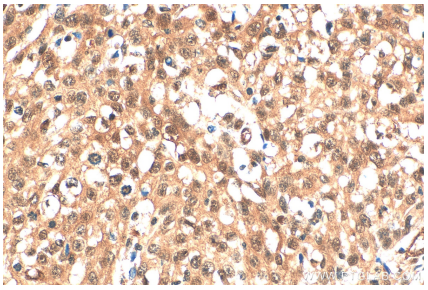

Various lysates were subjected to SDS PAGE followed by western blot with 83533-1-RR (ERK1/2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83533-1-PBS in a different storage buffer formulation.



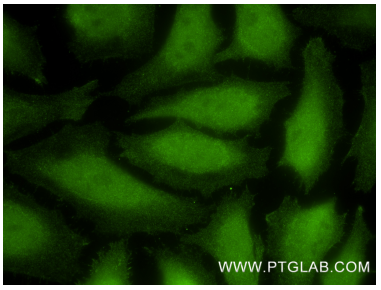
Immunohistochemical analysis of paraffin-embedded human pancreas tissue slide using 83533-1-RR (ERK1/2 antibody) at dilution of 1:100 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). Staining was performed on the Epredia 480S Autostainer. The staining was performed on an autostainer. This data was developed using the same antibody clone with 83533-1-PBS in a different storage buffer formulation.



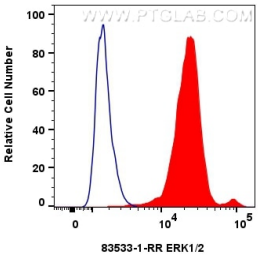
Immunohistochemical analysis of paraffin-embedded human pancreas tissue slide using 83533-1-RR (ERK1/2 antibody) at dilution of 1:100 (under 40x lens).Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). Staining was performed on the Epredia 480S Autostainer. The staining was performed on an autostainer. This data was developed using the same antibody clone with 83533-1-PBS in a different storage buffer formulation.



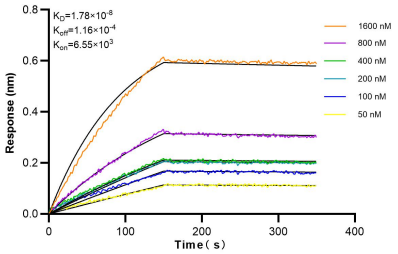
Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 83533-1-RR (ERK1/2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83533-1-PBS in a different storage buffer formulation.




Immunofluorescent analysis of (4% PFA) fixed HeLa cells using ERK1/2 antibody (83533-1-RR, Clone: 4P8 ) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 83533-1-PBS in a different storage buffer formulation.




1x10^6 HepG2 cells were intracellularly stained with 0.25 ug ERK1/2 Recombinant antibody (83533-1-RR, Clone:4P8) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Control Antibody (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011). This data was developed using the same antibody clone with 83533-1-PBS in a different storage buffer formulation.




Biolayer interferometry (BLI) kinetic assays of 83533-1-RR against Human ERK1/2 were performed. The affinity constant is 17.8 nM.