For Research Use Only

Phospho-ERK1/2 (Thr202/Tyr204) Polyclonal antibody

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Antibodies | ELISA kits | Proteins
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Catalog Number:28733-1-AP 268 Publications

Basic Information

Catalog Number:
28733-1-AP

Size:
600 μg/ml

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
NM_002746

GeneID (NCBI):
5595

UNIPROT ID:
P27361

Full Name:
mitogen-activated protein kinase 3

Calculated MW:
38-43 kDa

Observed MW:
38-43 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:1000-1:9000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

Applications

Tested Applications:
IP, WB, ELISA

Cited Applications:
WB, IF, IHC

Species Specificity:
Human, mouse, rat

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

Positive Controls:

WB : Calyculin A treated PC-3 cells, Calyculin A treated HEK-293T cells

IP : Calyculin A treated PC-3 cells,

Background Information

Serine/threonine kinase which acts as an essential component of the MAP kinase signal transduction pathway. MAPK1/ERK2 and MAPK3/ERK1 are the 2 MAPKs which play an important role in the MAPK/ERK cascade. They participate also in a signaling cascade initiated by activated KIT and KITLG/SCF. Depending on the cellular context, the MAPK/ERK cascade mediates diverse biological functions such as cell growth, adhesion, survival and differentiation through the regulation of transcription, translation, cytoskeletal rearrangements. The MAPK/ERK cascade plays also a role in initiation and regulation of meiosis, mitosis, and postmitotic functions in differentiated cells by phosphorylating a number of transcription factors. MEK1 and MEK2 activate p44 and p42 through phosphorylation of activation loop residues Thr202/Tyr204 and Thr185/Tyr187, respectively. Several downstream targets of p44/42 have been identified, including p90RSK and the transcription factor Elk-1. The antibody recognizes ERK2 phosphorylation sites Thr185 and Tyr187.

Notable Publications

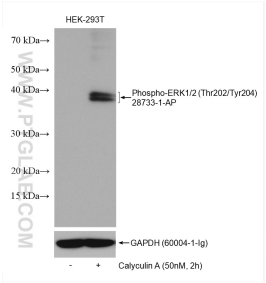
Author	Pubmed ID	Journal	Application
Xin-Sen Chen	36182039	Pharmacol Res	WB
Liping Wang	34559939	IUBMB Life	WB
Yan Sun	34469122	ACS Chem Neurosci	WB

Storage

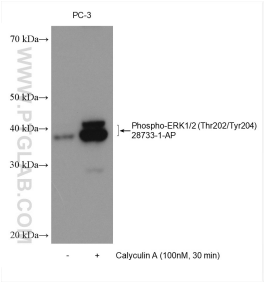
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

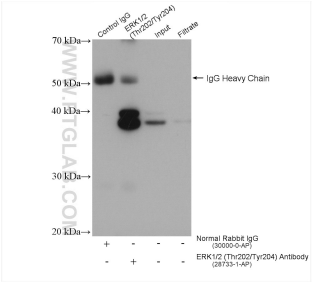
Selected Validation Data



Non-treated HEK-293T and Calyculin A treated HEK-293T cells were subjected to SDS PAGE followed by western blot with 28733-1-AP (ERK1/2-phospho-Thr202/Tyr204) at dilution of 1:3000 incubated at 4℃ overnight. The membrane was stripped and re-blotted with GAPDH antibody as loading control.



Non-treated and Calyculin A treated PC-3 cells were subjected to SDS PAGE followed by western blot with 28733-1-AP (Phospho-ERK1/2 (Thr202/Tyr204) antibody) at dilution of 1:4500 incubated at 4℃ overnight.



IP result of anti-Phospho-ERK1/2 (Thr202/Tyr204) (IP:28733-1-AP, 2ug; Detection:28733-1-AP 1:1000) with Calyculin A treated PC-3 cells lysate 1552 ug.