For Research Use Only

Phospho-ERK1/2 (Thr202/Tyr204) Recombinant antibody, PBS Only

Catalog Number:80031-1-PBS

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Antibodies | ELISA kits | Proteins
Uni-rAb
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Basic Information

Catalog Number:
80031-1-PBS

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

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:
38-40 kDa

Purification Method:
Protein A purification

CloneNo.:
8D12

Applications

Tested Applications:
WB, FC (Intra), Indirect ELISA

Species Specificity:
human, mouse

Background Information

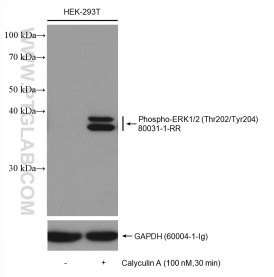
Serine/threonine kinase which acts as an essential component of the MAP kinase signal transduction pathway. MAPK1/ERK2 and MAPK3/ERK1 are the 2 MAPKs which play an important role in the MAPK/ERK cascade. They participate also in a signaling cascade initiated by activated KIT and KITLG/SCF. Depending 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.

Storage

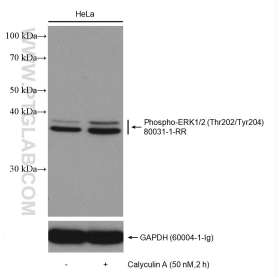
Storage:
Store at -80°C.
Storage Buffer:
PBS Only

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

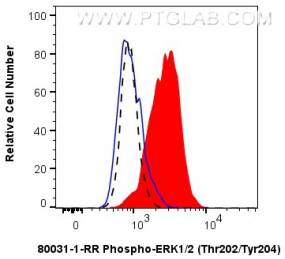
Selected Validation Data



Non-treated HEK-293T and Calyculin A treated HEK-293T cells were subjected to SDS PAGE followed by western blot with 80031-1-RR (Phospho-ERK1/2 (Thr202/Tyr204) antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 80031-1-PBS in a different storage buffer formulation.



Non-treated HeLa and Calyculin A treated HeLa cells were subjected to SDS PAGE followed by western blot with 80031-1-RR (Phospho-ERK1/2 (Thr202/Tyr204) antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 80031-1-PBS in a different storage buffer formulation.



1X10^6 HepG2 cells untreated (dashed lines) or treated with Calyculin A which intracellularly stained with 0.06 ug Phospho-ERK1/2 (Thr202/Tyr204) Recombinant antibody (80031-1-RR, Clone:8D12) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.06 ug Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with 90% MeOH. This data was developed