

# Phospho-ERK1/2 (Thr202/Tyr204)

## Recombinant antibody

Catalog Number: 80031-1-RR

20 Publications

### Basic Information

## Catalog Number:

80031-1-RR

## Size:

100ul, Concentration: 1000 µg/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

## Recommended Dilutions:

WB 1:2000-1:10000

### Applications

## Tested Applications:

WB, ELISA

## Cited Applications:

WB

## Species Specificity:

Human

## Cited Species:

human, rat, mouse

## Positive Controls:

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

### Notable Publications

Author	Pubmed ID	Journal	Application
Baiqing He	34611079	Aging (Albany NY)	WB
Chao Wu	34809653	Chin Med	WB
Lu Zhang	36355777	Br J Pharmacol	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

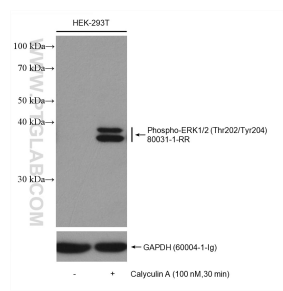
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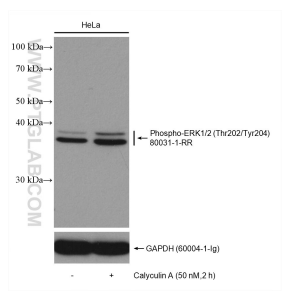
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## Selected Validation Data



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.



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.