

For Research Use Only

# Phospho-ERK1/2 (Thr202/Tyr204) Recombinant antibody



Catalog Number: 80031-1-RR **7 Publications**

## Basic Information

<b>Catalog Number:</b> 80031-1-RR	<b>GenBank Accession Number:</b> NM_002746	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 5595	<b>CloneNo.:</b> 8D12
<b>Source:</b> Rabbit	<b>Full Name:</b> mitogen-activated protein kinase 3	<b>Recommended Dilutions:</b> WB 1:2000-1:10000
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 38-43 kDa	
	<b>Observed MW:</b> 38-40 kDa	

## Applications

**Tested Applications:**  
WB, ELISA

**Cited Applications:**  
WB

**Species Specificity:**  
Human

**Cited Species:**  
human, mouse

**Positive Controls:**

**WB :** HEK-293T cells, PC-3 cells, HeLa cells, Calyculin A treated HEK-293T cells, Calyculin A treated PC-3 cells, Calyculin A treated HeLa 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
Fa Dai	35654141	J Biol Chem	WB

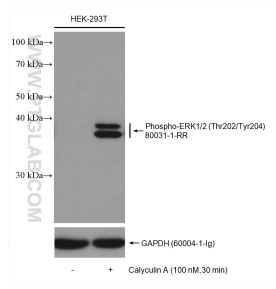
## Storage

**Storage:**  
Store at -20°C.  
**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:  
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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.