

For Research Use Only

CoraLite® Plus 647-conjugated Phospho-ERK1/2 (Thr202/Tyr204) Recombinant antibody

Catalog Number: CL647-80031



Basic Information

Catalog Number: CL647-80031	GenBank Accession Number: NM_002746	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 5595	CloneNo.: 8D12
Source: Rabbit	UNIPROT ID: P27361	Excitation/Emission maxima wavelengths: 654 nm / 674 nm
Isotype: IgG	Full Name: mitogen-activated protein kinase 3	
	Calculated MW: 38-43 kDa	
	Observed MW: 38-40 kDa	

Applications

Tested Applications:
FC (Intra)

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.

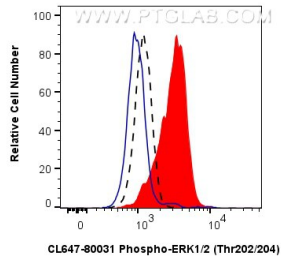
Storage

Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

Selected Validation Data



1X10⁶ HepG2 cells untreated (dashed lines) or treated with Calyculin A which intracellularly stained with 0.5 ug Coralite® Plus 647 Phospho-Erk1/2 (Thr202/Tyr204) Recombinant Antibody (CL647-80031, Clone:8D12)(red), or 0.5 ug Coralite® Plus 647 Rabbit IgG Isotype Control RecAb (CL647-98136, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with 90% MeOH.