

For Research Use Only

ERK1/2 Recombinant antibody

Catalog Number: 83533-1-RR



Basic Information

Catalog Number: 83533-1-RR	GenBank Accession Number: BC013992	Purification Method: Protein A purification
Size: 1000 µg/ml	GeneID (NCBI): 5595	CloneNo.: 4P8
Source: Rabbit	UNIPROT ID: P27361	Recommended Dilutions: WB 1:500-1:2000 IF 1:150-1:600
Isotype: IgG	Full Name: mitogen-activated protein kinase 3	
Immunogen Catalog Number: AG20350	Calculated MW: 43 kDa	
	Observed MW: 38-44 kDa	

Applications

Tested Applications:
WB, IF/ICC, ELISA

Species Specificity:
Human, Mouse, Rat

Positive Controls:

WB : MCF-7 cells, Jurkat cells, HEK-293 cells, HepG2 cells, C6 cells, NIH/3T3 cells, rat brain tissue

IF : HeLa cells,

Background Information

ERK1 and ERK2 belongs to the protein kinase superfamily. It is involved in both the initiation and regulation of meiosis, mitosis, and postmitotic functions in differentiated cells by phosphorylating a number of transcription factors such as ELK-1. ERK1/2 catalized the reaction: ATP + a protein = ADP + a phosphoprotein. It is activated by tyrosine phosphorylation in response to INS and NGF. This antibody can recognize both ERK1 and ERK2 with the molecular mass of 38-44 kDa.

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:

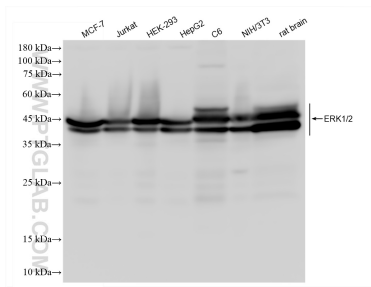
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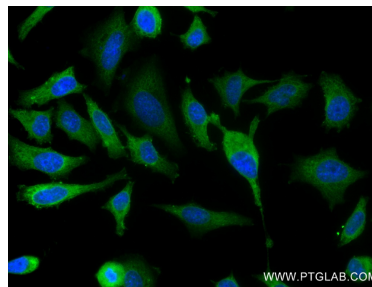
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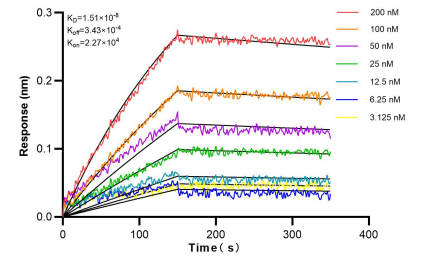
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 83533-1-RR (ERK1/2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using ERK1/2 antibody (83533-1-RR, Clone: 4P8) at dilution of 1:300 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1).



Bi-layer interferometry (BLI) kinetic assays of 83533-1-RR against Human ERK1/2 were performed. The affinity constant is 15.1 nM.