

Anti-ERK1/2 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

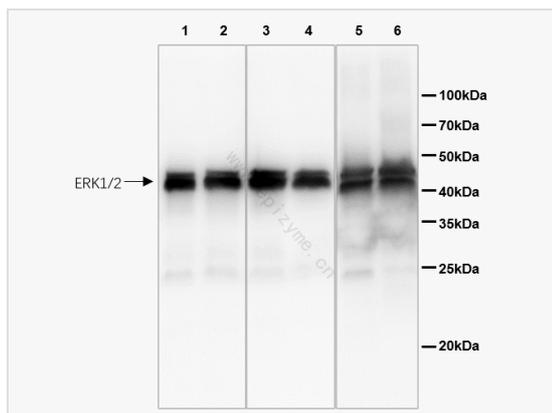
Catalog # R013501

Product Information

Application	WB, IHC-P/IF (Tissue-P), ELISA
Reactivity	Rat, Mouse, Human
Dilution	WB 1:1,000~1:2,000; IHC-P 1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	13M15K92
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant protein of human ERK2
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-ERK1/2 antibody [13M15K92] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	ERK 1, ERK 2, ERK-1, ERK-2, ERK1, erk1/2, ERK2, ERT1, ERT2, Extracellular signal regulated kinase 1, Extracellular signal-regulated kinase 1, Extracellular signal-regulated kinase 2, HS44KDAP, HUMKER1A, Insulin-stimulated MAP2 kinase, MAP kinase 1, MAP kinase 2, MAP kinase 3, MAP kinase isoform p42, MAP kinase isoform p44, MAPK 1, MAPK 2, MAPK 3, Mapk1, MAPK2, MAPK3, Microtubule-associated protein 2 kinase, Mitogen-activated protein kinase 1, Mitogen-activated protein kinase 2, Mitogen-activated protein kinase 3, MK01_HUMAN, p41mapk, p42-MAPK, P42MAPK, p44-ERK1, p44-MAPK, p44ERK1, p44MAPK, PRKM 2, PRKM1, PRKM2, PRKM3, protein tyrosine kinase ERK2.
Calculated MW	42-44 kDa
Uniprot ID	P27361, P28482
Gene ID	5595/5594
Background	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.



Western Blot - Anti-ERK1/2 Rabbit mAb [13M15K92]

All lanes: R013501 at 1:1,000 dilution

Lane 1: HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 2: MCF7 (human breast adenocarcinoma epithelial cell) whole cell lysates

Lane 3: SW620 (human colorectal cancer epithelial cell) whole cell lysates

Lane 4: MSC (human mesenchymal stem cell) whole cell lysates

Lane 5: Balb/c mouse brain whole tissue lysates

Lane 6: Balb/c mouse lung whole tissue lysates

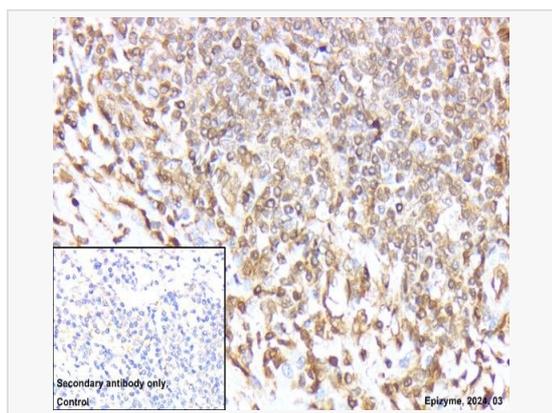
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 42-44 kDa

Observed band size: 42-44 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-ERK1/2 Rabbit mAb [13M15K92]

Sample: Paraformaldehyde-fixed, paraffin embedded human hepatoma carcinoma tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R013501 at 1:200 dilution

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.