Anti-Phospho-ERK1 (T202/Y204)/ERK2 (T185/Y187) Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R013960

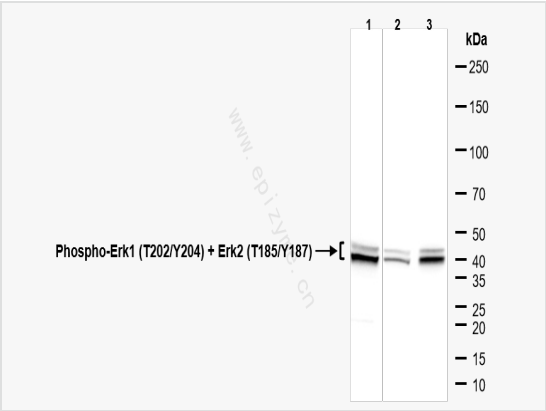
Product Information

Application	WB, IHC-P/IF (Tissue-P), ELISA
Reactivity	Human, Mouse
Dilution	WB 1:1,000~1:4,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	67S45G56
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Phospho-ERK1 (Y204) + ERK2 (Y187)
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-Phospho-ERK1 (T202/Y204)/ERK2 (T185/Y187) Rabbit mAb [67S45G56] is for research use only and not for use in diagnostic or therapeutic procedures.

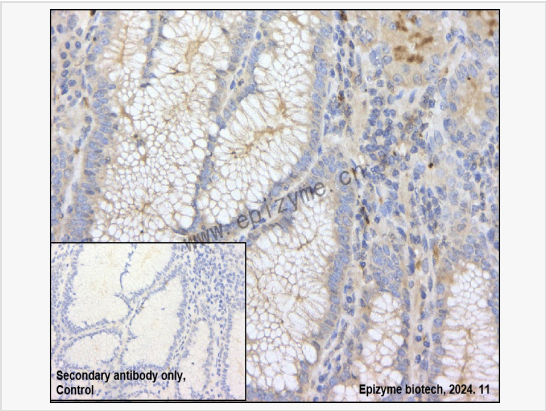
Protein Information

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	Calculated MW: 53 kDa; Observed MW: 40 kDa, 42 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.
Cellular Location	ERK2: Nucleus.

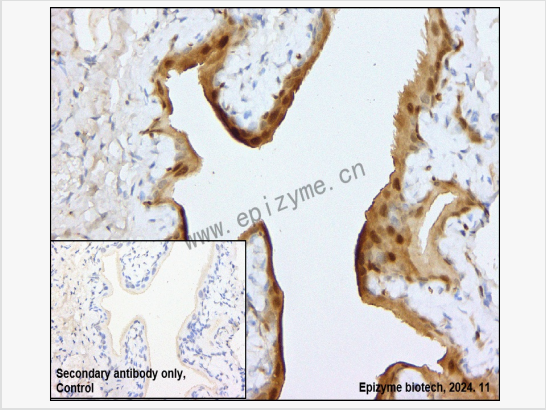
Validation Images



Western Blot - Anti-Phospho-ERK1 (T202/Y204)/ERK2 (T185/Y187) Rabbit mAb [67S45G56]
All lanes: R013960 at 1:4,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: A431 (Human epidermoid teratoma cell line) whole cell lysates
Lane 3: T24 (Human bladder cancer epithelial cell) whole cell 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: 53 kDa
Observed band size: 40 kDa, 42 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-Phospho-ERK1 (T202/Y204)/ERK2 (T185/Y187) Rabbit mAb [67S45G56]
Sample: Paraformaldehyde-fixed, paraffin embedded human gastric cancer tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R013960 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.



Immunohistochemistry - Anti-Phospho-ERK1 (T202/Y204)/ERK2 (T185/Y187) Rabbit mAb [67S45G56]
Sample: Paraformaldehyde-fixed, paraffin embedded rat bladder tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R013960 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.