Anti-Phospho-ERK1/2 (Thr202/Thr185) Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R010505

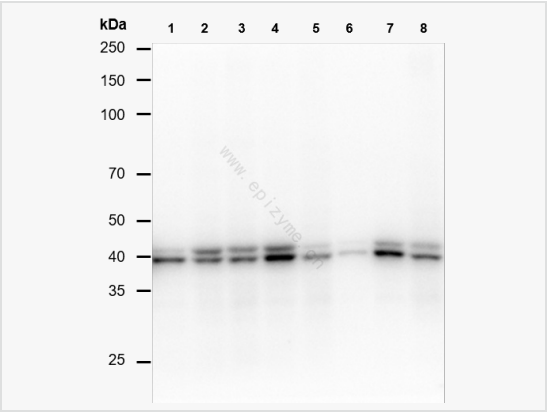
Product Information

Application	ELISA, WB, IHC-P/IF (Tissue-P)
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IHC-P 1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	47K36K34
Isotype	IgG
Label	Unconjugated
Immunogen	A synthetic phosphopeptide corresponding to residues surrounding Thr185 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-Phospho-ERK1/2 (Thr202/Thr185) antibody [47K36K34] is for research use only and not for use in diagnostic or therapeutic procedures.

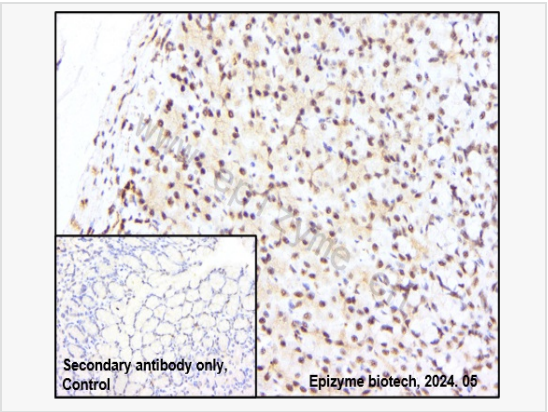
Protein Information

Synonyms	MAPK1/MAPK3.
Calculated MW	Calculated MW: 42 kDa, 44 kDa; Observed MW: 42 kDa, 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.

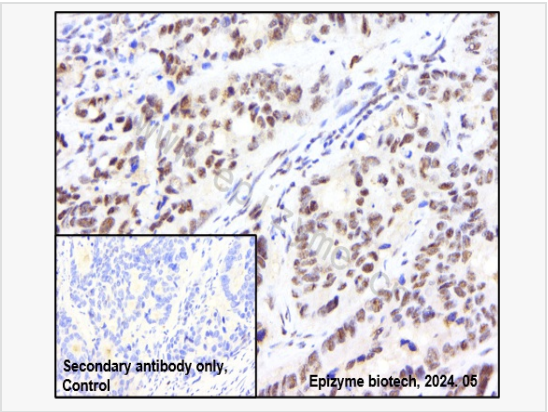
Validation Images



Western Blot - Anti-Phospho-ERK1/2 (Thr202/Thr185) Rabbit mAb [47K36K34]
All lanes: R010505 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: Jurkat (human T lymphocytic leukemia cell) whole cell lysates
Lane 4: HCT116 (human colorectal carcinoma epithelial cell) whole cell lysates
Lane 5: T24 (human bladder cancer epithelial cell) whole cell lysates
Lane 6: HepG2 (human hepatocellular carcinoma epithelial cell) whole cell lysates
Lane 7: SW620 (human colorectal carcinoma epithelial cell) whole cell lysates
Lane 8: U2OS (human osteosarcoma 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: 42 kDa, 44 kDa
Observed band size: 42 kDa, 44 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-Phospho-ERK1/2 (Thr202/Thr185) Rabbit mAb [47K36K34]
Sample: Paraformaldehyde-fixed, paraffin embedded rat stomach tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R010505 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-ERK1/2 (Thr202/Thr185) Rabbit mAb [47K36K34]
Sample: Paraformaldehyde-fixed, paraffin embedded human colorectal carcinoma tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R010505 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.