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

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R010505

## Product Information

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| 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

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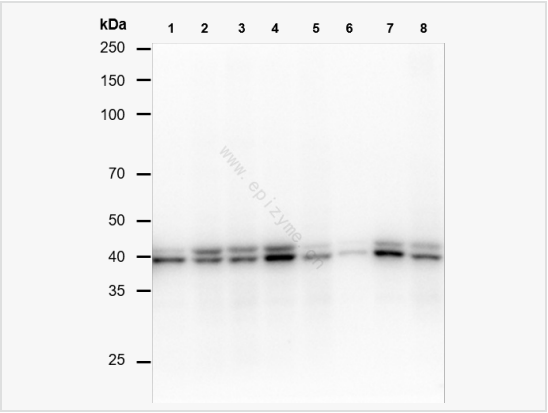
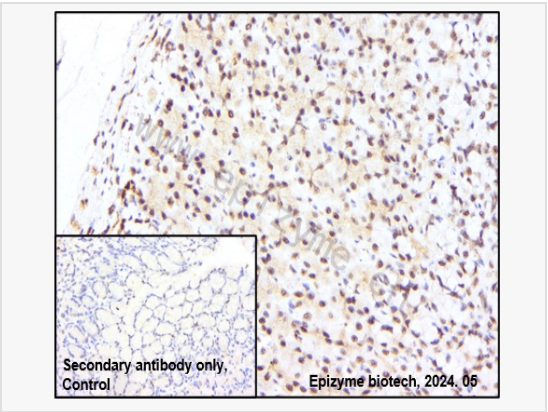
| Synonyms | MAPK1/MAPK3. |
| Calculated MW | Calculated MW: 42 kDa, 44 kDa; Observed MW: 42 kDa, 44 kDa |
| Uniprot ID | P27361, P28482 |
| Gene ID | 5595/5594 |
| Background | Serine/threonine kinase which acts as an essential component of the MAP kinase signal transduction pathway. MAPK1/ERK2 and 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. |

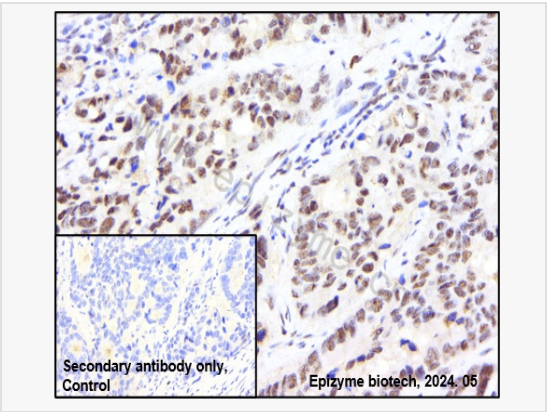
## Validation Images




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.