

Anti-Phospho-ERK1 (Thr202 , Tyr204) Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat (predicted:Chicken,Dog,Cow,Horse,Rabbit,GuineaPig)
Molecular Weight:	Theoretical: 43 kDa.
Purification:	Protein A purified

Applications

1. Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Incubation: Anti-phospho-Erk1 (Thr202+Tyr204) Polyclonal Antibody, Unconjugated (TMAB-01407) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.

2. Blank control (blue line): U251 (blue).

Primary Antibody (green line): Rabbit Anti-phospho-Erk1 (Thr202 + Tyr204) antibody (TMAB-01407)

Dilution: 3 µg/10⁶ cells;

Isotype Control Antibody (orange line): Rabbit IgG.

Secondary Antibody (white blue line): Goat anti-rabbit IgG-PE

Dilution: 1 µg/test.

Protocol

The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The cells were then incubated in 1 X PBS/2% BSA/10% goat serum to block non-specific protein-protein interactions followed by the antibody for 15 min at room temperature. The secondary antibody used for 40 min at room temperature.

3. Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (phospho-Erk1 (Thr202 + Tyr204)) Polyclonal Antibody, Unconjugated (TMAB-01407) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

4. Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (phospho-Erk1 (Thr202 + Tyr204)) Polyclonal Antibody, Unconjugated (TMAB-01407) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

5. Blank control: MCF7. Primary Antibody (green line): Rabbit Anti-phospho-Erk1 (Thr202 + Tyr204) antibody

Dilution: 2 µg/10⁶ cells;

Isotype Control Antibody (orange line): Rabbit IgG.

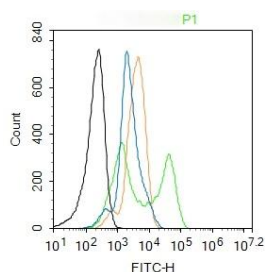
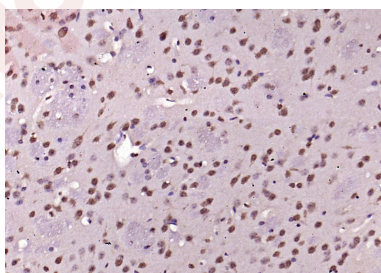
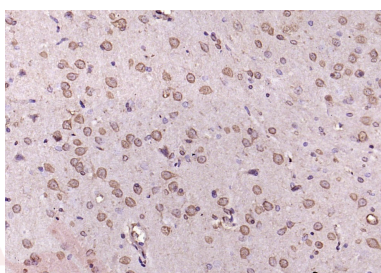
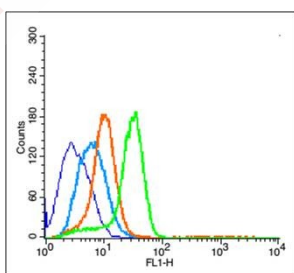
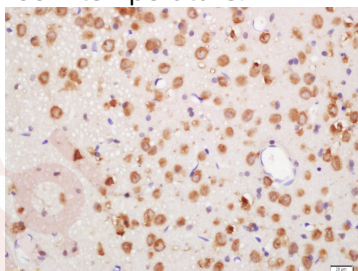
Secondary Antibody: Goat anti-rabbit IgG-FITC

Dilution: 1 µg/test.

Verified Activity:

Protocol

The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 0.1%PBST for 20 min at room temperature. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature.



Application: FCM,IF,IHC-Fr,IHC-P

Recommended IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500; FCM: 2ug/Test

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated Synthesised phosphopeptide: rat ERK1 around the phosphorylation site of Thr201/204

Antigen Species: Rat

Synonyms: P44ERK1;p44-ERK1;p-ERK1/2 (Thr202, Tyr204);ERT2;ERK-1;PRKM3;p44-MAPK;ERK-2;P44MAPK;Erk2;Phospho-ERK1/2 (T202, Y204);HUMKER1A;ERK1/2 (p-T202, Y204);HS44KDAP;p-ERK1/2 (T202, Y204);ERK1;ERK1/2 (p-Thr202, Tyr204)

Biology Area: Tangles & Tau,MAPK Pathway,Cytoplasmic

Research Background

The protein encoded by this gene is a member of the MAPkinase family. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), act in a signaling cascade that regulates various cellular processes such as proliferation, differentiation, and cell cycle progression in response to a variety of extracellular signals. This kinase is activated by upstream kinases, resulting in its translocation to the nucleus where it phosphorylates nuclear targets. Alternatively spliced transcript variants encoding different protein isoforms have been described. [provided by RefSeq, Jul 2008].

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