

Anti-ERK1/2 Antibody (2U314)

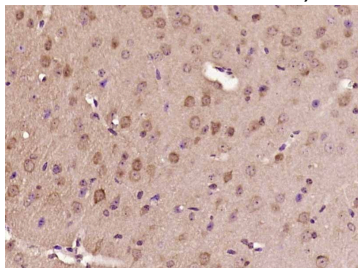
Product Details

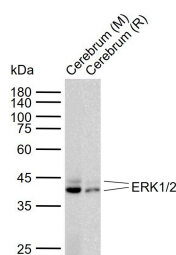
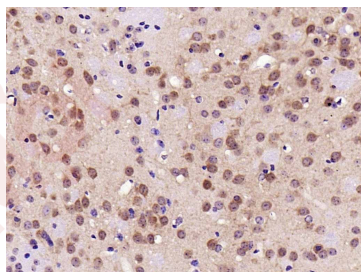
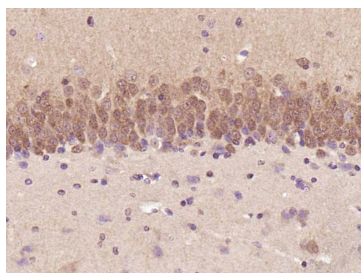
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Molecular Weight:	Theoretical: 43 kDa. Actual: 44,42 kDa.
Clone:	2U314
Purification:	Protein G purified

Applications

Verified Activity:

1. 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 (ERK1/2) Monoclonal Antibody, Unconjugated (TMAB-00635) at 1:500 overnight at 4°C, followed by a conjugated secondary for 20 min and DAB staining.
2. 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 (ERK1+2) Polyclonal Antibody, Unconjugated (TMAB-00635) at 1:2000 overnight at 4°C, followed by operating according to SP Kit (Mouse) instructions and DAB staining.
3. 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 (ERK1+2) Polyclonal Antibody, Unconjugated (TMAB-00635) at 1:2000 overnight at 4°C, followed by operating according to SP Kit (Mouse) instructions and DAB staining.
4. Sample:
Lane 1: Mouse Cerebrum tissue lysates
Lane 2: Rat Cerebrum tissue lysates
Primary: Anti-ERK1/2 (TMAB-00635) at 1/1000 dilution
Secondary: Alexa Fluor 790 AffiniPure Goat Anti-Mouse IgG, light chain specific
Predicted band size: 43 kDa
Observed band size: 44,42 kDa





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

Recommended FCM=1 µg/Test; IF=1:500-2000; IHC-Fr=1:500-2000; IHC-P=1:500-2000; WB=1:1000-5000

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 synthetic peptide: human ERK1/2

Antigen Species: Human

Gene ID: 5594

Uniprot ID: P27361

Synonyms: MAPK 2;PRKM 3;Extracellular signal regulated kinase 2;Protein kinase mitogen activated 1; Mitogen activated protein kinase 3;p44 ERK1;MGC20180;MAP kinase isoform p42;PRKM1;MAPK 1;ERT2;p44 MAPK;HS44KDAP;MAP kinase isoform p44;ERK1;ERK-2;Extracellular signal regulated kinase 1;p44ERK1;MK03;MAP kinase 2;MAPK 3;ERK2;ERT1;MAPK2;MK01;Mitogen activated protein kinase 1;PRKM2;HUMKER1A;p44MAPK;p41;p38;Protein kinase mitogen activated 2;Extracellular signal-regulated kinase 2;MAPK1;Protein tyrosine kinase ERK 2;PRKM 1;PRKM 2;ERK 1;p42-MAPK;p41mapk;Protein kinase mitogen activated 3;Mitogen activated protein kinase 2;p42MAPK;p42 MAPK;ERK 1/2;Insulin stimulated MAP2 kinase;Microtubule associated protein 2 kinase;MAP kinase 1;p40;MAPK3;ERK 2;PRKM3

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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