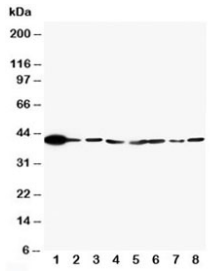
ERK2 Antibody / MAPK1 (R30367)

Catalog No.	Formulation	Size
R30367	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	P28482
Applications	Western Blot : 0.5-1ug/ml
Limitations	This ERK2 antibody is available for research use only.



Western blot testing of ERK2 antibody and Lane 1: rat brain; 2: rat lung; 3: rat placenta; 4: HT1080; 5: HeLa; 6: MM231; 7: Raji; 8: COLO320 cell lysate. Predicted/observed molecular weight: ~41kDa.

Description

Mitogen-activated protein kinase 1, also known as MAPK1, p42MAPK, and ERK2, is an enzyme which in humans is encoded by the MAPK1 gene. The gene is mapped to 22q11.2. And The protein encoded by this gene is a member of the MAP kinase family. The deduced 360-amino acid human ERK2 protein shares 98% identity with rat Erk2. The MAP kinase ERK2 is widely involved in eukaryotic signal transduction. Upon activation, it translocates to the nucleus of the stimulated cell, where it phosphorylates nuclear targets. Futhermore, the ERK pathway is necessary for experience-dependent plasticity and for long-term potentiation of synaptic transmission in the developing visual cortex. And the MAPK pathway is also involved in responses to NTN1.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the ERK2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the C-terminus of human ERK2 (FEETARFQPGYRS) was used as the immunogen for this ERK2 antibody (100% homologous in human, mouse and rat).

Storage

After reconstitution, the ERK2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.