

ERK1/2 Ab

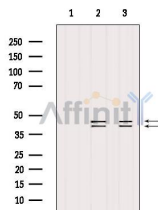
Cat.#: AF0155
Size: 100ul,200ul

Concn.: 1mg/ml
Source: Rabbit

Mol.Wt.: 42kDa,44kDa
Clonality: Polyclonal

Application:	WB: 1:1000~1:5000 IHC: 1:100~1:500 IF 1:200
Reactivity:	Human,Mouse,Rat,Pig,Zebrafish,Bovine,Horse,Sheep,Dog,M onkey,Fish
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific).
Specificity:	ERK1/2 Ab detects endogenous levels of total ERK1/2.
Immunogen:	A synthesized peptide derived from human ERK1/2.
Uniprot:	P27361/P28482
Description:	ERK1 p42 MAP kinase plays a critical role in the regulation of cell growth and differentiation. Activated by a wide variety of extracellular signals including growth and neurotrophic factors, cytokines, hormones and neurotransmitters.ERK2 p44 MAP kinase plays a critical role in the regulation of cell growth and differentiation. Acts as an integration point for multiple biochemical signals, and is involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development.
Subcellular Location:	Nucleus.
Similarity:	The TXY motif contains the threonine and tyrosine residues whose phosphorylation activates the MAP kinases.Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. MAP kinase subfamily.
Storage Condition and Buffer:	PBS, pH 7.4,50% glycerol.

Western blot analysis of ERK1/2 using various lysates Lanes
1 - 2: Merged signal (red and green). Green - AF0155
observed at 42,44kDa. Red - loading control, T0004, observed
at 36 kDa. Blots were developed with Goat Anti-Rabbit
IgG(H+L) FITC-conjugated (S0008) and Goat Anti-Mouse
IgG(H+L) Alexa Fluor 594-conjugated (S0005) secondary
antibodies

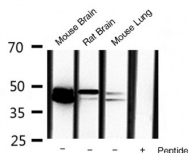


Western blot analysis of extracts from various samples, using ERK1/2 Ab.

Lane 1: 3T3 treated with blocking peptide;

Lane 2: 3T3;

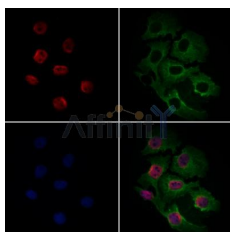
Lane 3: COS-7.



Western blot analysis of extracts from various samples, using erk1/2 Ab.



AF0155 at 1/50 staining human colon cancer tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the Ab for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit Ab was used as the secondary.



AF0155 staining HeLa cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. Samples were then incubated with primary Ab (AF0155 1:200) and mouse anti-beta tubulin Ab (T0023 1:200) for 1 hour at 37°C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab (Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab (Green) were used as the secondary Ab.

IMPORTANT: For western blot, incubate membrane with diluted primary Ab in 5% w/v milk, 1X TBS, 0.1% Tween@20 at 4°C with gentle shaking, overnight.

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