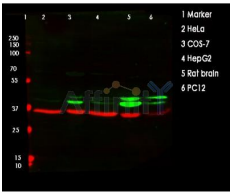
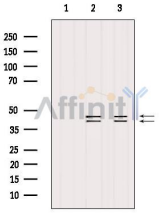
ERK1/2 Ab

Cat.#: AF0155	Concn.: 1mg/ml	Mol.Wt.: 42kDa,44kDa
Size: 100ul,200ul	Source: Rabbit	Clonality: Polyclonal

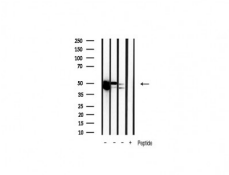
Application:	WB: 1:1000-1:5000, IHC: 1:100-1:500, IF 1:200 IP 1:200
Reactivity:	Human,Mouse,Rat,Pig,Zebrafish,Bovine,Horse,Sheep,Dog,Monkey,Fish
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific).
Specificity:	ERK1/2 Ab detects endogenous levels of total ERK1/2.
Immunogen:	A synthesized peptide derived from human ERK1/2, corresponding to a region within C-terminal amino acids.
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

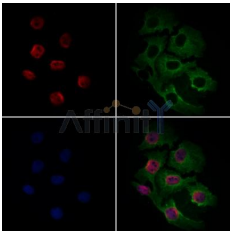


Western blot analysis of extracts from various samples, using ERK1/2 Ab.
Lane 1: 3T3 treated with blocking peptide;
Lane 2: 3T3;
Lane 3: COS-7.



Western blot analysis of extracts from various samples, using ERK1/2 Ab.
Lane 1: Mouse brain lysates;
Lane 2: Rat brain lysates;
Lane 3: Mouse lung lysates;
Lane 4: Mouse lung lysates treated with blocking peptide;

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.