

## Product Datasheet

### Anti-ERK1/2 Rabbit pAb



WL01864

For Research Use Only. Not For Use In Diagnostic Procedures

#### Product Information

Product name	Anti-ERK1/2 Rabbit pAb	
Source	Rabbit	
Species reactivity	Human, Mouse, Rat, Cow	
Tested applications	WB	1:500-1:1000
	IHC	1:100-1:300
	IF	1:100-1:500
Cellular localization	Cell junction, Cytoplasm, Membrane, Nucleus.	
Pack size	50/100/200/500/1000μl	
Storage	Store at -20°C. <b>Avoid freeze/thaw cycles.</b>	
Storage buffer	Supplied in 20 mM phosphate (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide	

#### General Information

Background	The p44/42 MAPK (Erk1/2) signaling pathway can be activated in response to a diverse range of extracellular stimuli including mitogens, growth factors, and cytokines, and research investigators consider it an important target in the diagnosis and treatment of cancer. Activation of ERK1 and ERK2 requires phosphorylation by upstream kinases such as MAP kinase kinase (MEK), MEK kinase and Raf-1. ERK1 and ERK2 phosphorylation can occur at specific tyrosine and threonine sites mapping within consensus motifs that include the Threonine-Glutamate-Tyrosine motif. ERK activation leads to dimerization with other ERKs and subsequent localization to the nucleus. Active ERK dimers phosphorylate serine and threonine residues on nuclear proteins and influence a host of responses that include proliferation, differentiation, transcription regulation and development.
Immunogen	Polyclonal antibody is produced by immunizing animals with a synthetic peptide of ERK1/2.
Purification	Polyclonal antibody was purified by immunogen affinity chromatography.

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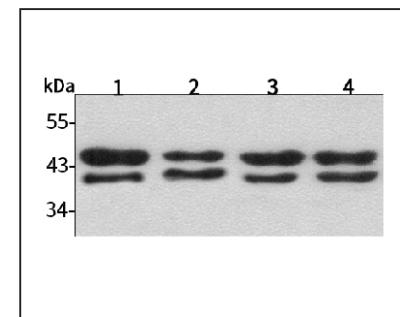
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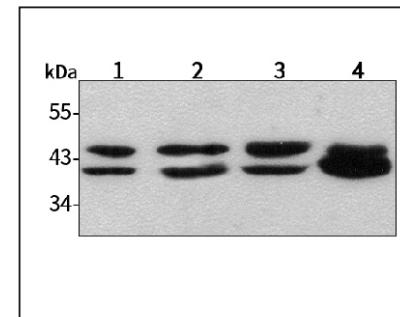
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#### Product Images



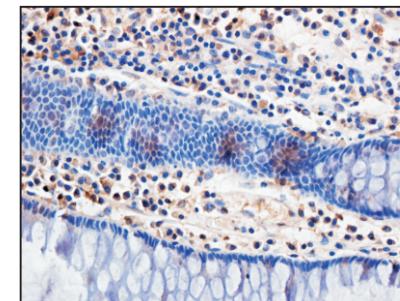
##### Western blot-Anti-ERK1/2 pAb

Lane 1: Human HepG2 cell lysate  
 Lane 2: Human Hela cell lysate  
 Lane 3: Human BGC-823 cell lysate  
 Lane 4: Human MGC-803 cell lysate  
 All lanes: Anti-ERK1/2 at 1:1000 dilution  
 Lysates/proteins at 20-50 μg per lane.  
 Predicted band size: 42,44 kDa  
 Observed band size: 42,44 kDa



##### Western blot-Anti-ERK1/2 pAb

Lane 1: Mouse brain tissue lysate  
 Lane 2: Mouse colon tissue lysate  
 Lane 3: Rat skin tissue lysate  
 Lane 4: Rat kidney tissue lysate  
 All lanes: Anti-ERK1/2 at 1:1000 dilution  
 Lysates/proteins at 20-50 μg per lane.  
 Predicted band size: 42,44 kDa  
 Observed band size: 42,44 kDa



##### Immunohistochemistry-Anti-ERK1/2 pAb

Immunohistochemical analysis of paraffin-embedded human colon cancer using anti-ERK1/2 Rabbit Antibody at 1:100 dilution.  
 Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0

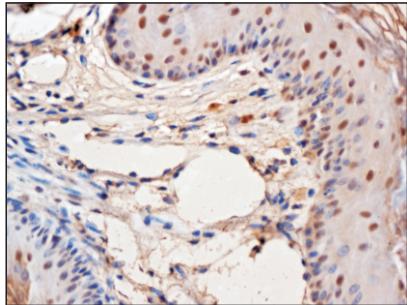
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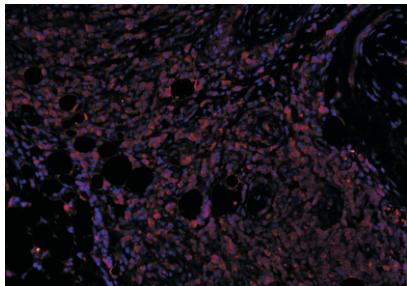
### Product Information



#### Immunohistochemistry-Anti-ERK1/2 pAb

Immunohistochemical analysis of paraffin-embedded mouse stomach cancer using anti-ERK1/2 Rabbit Antibody at 1:100 dilution.

Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0.



#### Immunofluorescence-Anti-ERK1/2 pAb

Immunofluorescence analysis of paraffin-embedded Human rectum cancer using anti-ERK1/2 Rabbit Antibody at 1:500 dilution.

Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0.