

# [KO Validated] ERK1 Rabbit pAb

Catalog No.: A0228 **KO** **Validated** **8 Publications**

## Basic Information

**Catalog No.**

A0228

**Observed MW**

40kDa

**Calculated MW**

38kDa/40kDa/43kDa

**Category**

Primary antibody

**Applications**

WB, IHC, IF

**Cross-Reactivity**

Human, Mouse, Rat

## Recommended Dilutions

<b>WB</b>	1:500 - 1:2000
<b>IHC</b>	1:50 - 1:200
<b>IF</b>	1:50 - 1:200

## Contact

 | [www.abclonal.com](http://www.abclonal.com)

## Background

The protein encoded by this gene is a member of the MAP kinase 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.

## Immunogen Information

<b>Gene ID</b>	<b>Swiss Prot</b>
5595	P27361

**Immunogen**

A synthetic peptide corresponding to a sequence within amino acids 1-100 of human ERK1 (NP\_002737.2).

**Synonyms**

ERK-1;ERK1;ERT2;HS44KDAP;HUMKER1A;P44ERK1;P44MAPK;PRKM3;p44-ERK1;p44-MAPK;MAPK3

## Product Information

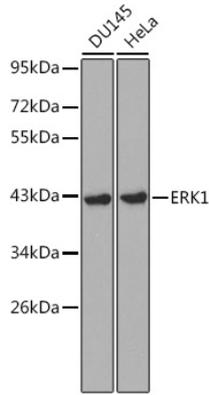
<b>Source</b>	<b>Isotype</b>	<b>Purification</b>
Rabbit	IgG	Affinity purification

**Storage**

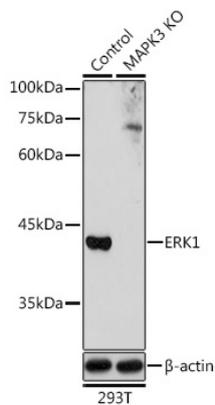
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.

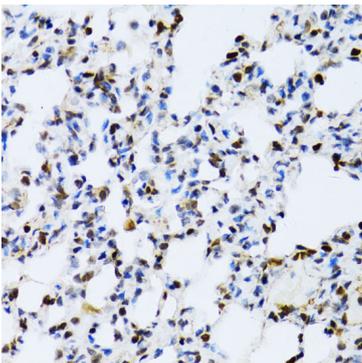
## Validation Data



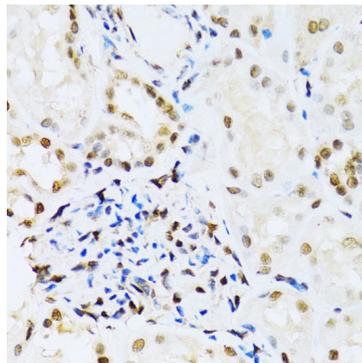
Western blot analysis of extracts of various cell lines, using ERK1 antibody (A0228) at 1:1000 dilution.  
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25ug per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.



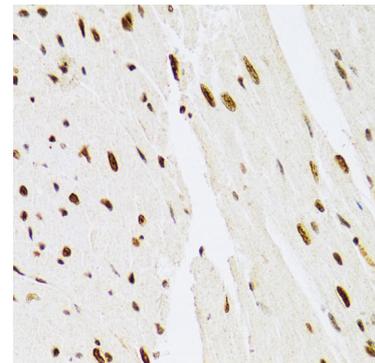
Western blot analysis of extracts from normal (control) and ERK1 Rabbit pAb knockout (KO) 293T cells, using ERK1 Rabbit pAb antibody (A0228) at 1:1000 dilution.  
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25ug per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 10s.



Immunohistochemistry of paraffin-embedded rat lung using ERK1 Antibody (A0228) at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded human kidney using ERK1 Antibody (A0228) at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded mouse heart using ERK1 Antibody (A0228) at dilution of 1:100 (40x lens).