

Product datasheet

Anti-ERK2 antibody [6F8] ab124362

3 References 6 图像

概述

产品名称	Anti-ERK2抗体[6F8]
描述	小鼠单克隆抗体[6F8] to ERK2
宿主	Mouse
经测试应用	适用于: WB, IP, IHC-P, Flow Cyt
种属反应性	与反应: Rat, Dog, Human, Monkey
免疫原	Full length protein of Human ERK2 expressed in 293T cells transfected with expression vector.
阳性对照	ERK2-transfected HEK293T cells and lysate, HeLa, HT29, A549, COS7, Jurkat, MDCK, PC12, and MCF7 cell extracts, Adenocarcinoma of Human breast and Adenocarcinoma of Human ovary tissues,

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 48% PBS, 50% Glycerol, 1% BSA
纯度	Protein A purified
纯化说明	Purified from mouse ascites fluids
克隆	单克隆
克隆编号	6F8
同种型	IgG2a

应用

Our [Abpromise guarantee](#) covers the use of **ab124362** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab评论	说明
WB		1/1000 - 1/2000.
IP		Use at 2-0.5 µg/mg of lysate.
IHC-P		1/50.
Flow Cyt		1/100. <a href="#">ab170191</a> - Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody.

## 靶标

### 功能

Involved in both the initiation and regulation of meiosis, mitosis, and postmitotic functions in differentiated cells by phosphorylating a number of transcription factors such as ELK1. Phosphorylates EIF4EBP1; required for initiation of translation. Phosphorylates microtubule-associated protein 2 (MAP2). Phosphorylates SPZ1 (By similarity). Phosphorylates heat shock factor protein 4 (HSF4) and ARHGEF2. Acts as a transcriptional repressor. Binds to a [GC]AAA[GC] consensus sequence. Repress the expression of interferon gamma-induced genes. Seems to bind to the promoter of CCL5, DMP1, IFIH1, IFITM1, IRF7, IRF9, LAMP3, OAS1, OAS2, OAS3 and STAT1. Transcriptional activity is independent of kinase activity.

### 序列相似性

Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. MAP kinase subfamily. Contains 1 protein kinase domain.

### 结构域

The TXY motif contains the threonine and tyrosine residues whose phosphorylation activates the MAP kinases.

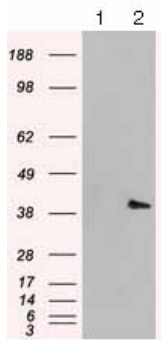
### 翻译后修饰

Dually phosphorylated on Thr-185 and Tyr-187, which activates the enzyme. Dephosphorylated by PTPRJ at Tyr-187.

### 细胞定位

Nucleus.

## 图片



Western blot - Anti-ERK2 antibody [6F8] (ab124362)

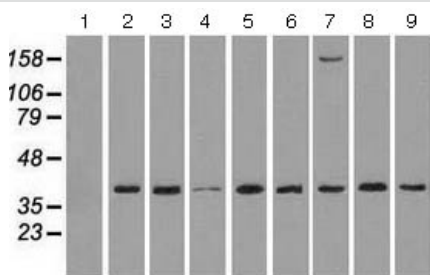
**All lanes** : Anti-ERK2 antibody [6F8]  
(ab124362) at 1/1000 dilution

**Lane 1** : HEK293T cell lysate transfected with  
pCMV6-ENTRY control

**Lane 2** : HEK293T cell lysate transfected with  
pCMV6-ENTRY ERK2

Lysates/proteins at 5 µg per lane.

HEK293T cell lysates were generated from  
transient transfection of the cDNA clone  
(RC204703)



Western blot - Anti-ERK2 antibody [6F8] (ab124362)

**All lanes** : Anti-ERK2 antibody [6F8]  
(ab124362) at 1/1000 dilution

**Lane 1** : HepG2 cell extract

**Lane 2** : HeLa cell extract

**Lane 3** : HT29 cell extract

**Lane 4** : A549 cell extract

**Lane 5** : COS7 cell extract

**Lane 6** : Jurkat cell extract

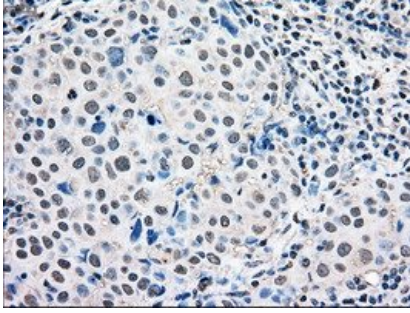
**Lane 7** : MDCK cell extract

**Lane 8** : PC12 cell extract

**Lane 9** : MCF7 cell extract

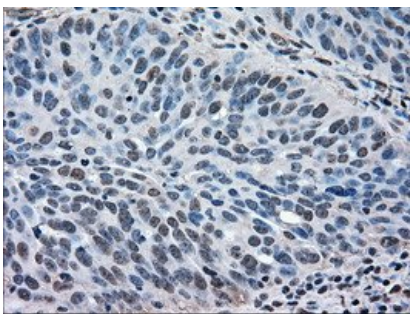
Lysates/proteins at 35 µg per lane.

HEK293T cell lysates were generated from  
transient transfection of the cDNA clone  
(RC204703)



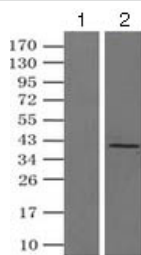
Staining of ERK2 in Paraffin-embedded Adenocarcinoma of Human breast tissue by Immunohistochemistry using ab124362 at a dilution of 1/50.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ERK2 antibody [6F8] (ab124362)



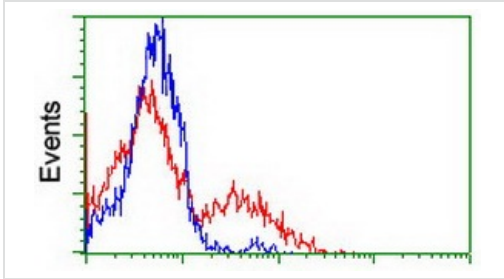
Staining of ERK2 in Paraffin-embedded Adenocarcinoma of Human ovary tissue by Immunohistochemistry using ab124362 at a dilution of 1/50.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ERK2 antibody [6F8] (ab124362)



Lane 1: controle IgG. Lane 2: Staining of ERK2 in 0.5ml of DDK tagged ERK2 overexpression lysates (at 1/5 dilution with HEK293T lysate) immunoprecipitated using 2  $\mu$ g ab124362 and 0.1mg of goat anti-mouse conjugated magnetic beads. Predicted band size : 41 kDa.

Immunoprecipitation - Anti-ERK2 antibody [6F8] (ab124362)



Flow Cytometry - Anti-ERK2 antibody [6F8]  
(ab124362)

HEK293T cells transfected with either ERK2 overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by ab124362 at a dilution of 1/100, and then analyzed by flow cytometry.

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