

## Product datasheet

# Anti-ERK5 antibody ab93125

### 1 References

#### 概述

产品名称	Anti-ERK5抗体
描述	兔多克隆抗体to ERK5
宿主	Rabbit
经测试应用	适用于: WB, ELISA
种属反应性	与反应: Recombinant fragment 预测可用于: Mouse, Rat, Human 
免疫原	Synthetic peptide corresponding to C terminal residues of Human ERK5.

#### 性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
存储溶液	Preservative: 0.01% Sodium azide Constituents: PBS, 50% Glycerol
纯度	Immunogen affinity purified
纯化说明	Purity >90%
克隆	多克隆
同种型	IgG

#### 应用

Our [Abpromise guarantee](#) covers the use of **ab93125** 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
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WB	Use a concentration of 1 µg/ml. Predicted molecular weight: 88 kDa. This antibody has been tested in Western blot against the recombinant peptide used as an immunogen. We have no data on detection of endogenous protein.
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应用	Ab 评论	说明
ELISA		1/2000 - 1/5000.

## 靶标

<b>功能</b>	Plays a role in various cellular processes such as proliferation, differentiation and cell survival. The upstream activator of MAPK7 is the MAPK kinase MAP2K5. Upon activation, it translocates to the nucleus and phosphorylates various downstream targets including MEF2C. EGF activates MAPK7 through a Ras-independent and MAP2K5-dependent pathway. May have a role in muscle cell differentiation. May be important for endothelial function and maintenance of blood vessel integrity. MAP2K5 and MAPK7 interact specifically with one another and not with MEK1/ERK1 or MEK2/ERK2 pathways.
<b>组织特异性</b>	Expressed in many adult tissues. Abundant in heart, placenta, lung, kidney and skeletal muscle. Not detectable in liver.
<b>序列相似性</b>	Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. MAP kinase subfamily. Contains 1 protein kinase domain.
<b>结构域</b>	The second proline-rich region may interact with actin targeting the kinase to a specific location in the cell. The TXY motif contains the threonine and tyrosine residues whose phosphorylation activates the MAP kinases.
<b>翻译后修饰</b>	Dually phosphorylated on Thr-219 and Tyr-221, which activates the enzyme (By similarity). Autophosphorylated in vitro on threonine and tyrosine residues when the C-terminal part of the kinase, which could have a regulatory role, is absent.
<b>细胞定位</b>	Cytoplasm. Nucleus. Translocates to the nucleus upon activation.

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