

### Anti-MEF2D (phospho S444) antibody ab59200

★★★★★ [1 Abreviews](#) [1 References](#) [1 图像](#)

#### 概述

产品名称	Anti-MEF2D (phospho S444)抗体
描述	兔多克隆抗体to MEF2D (phospho S444)
宿主	Rabbit
特异性	Detects endogenous levels of MEF2D only when phosphorylated at serine 444.
经测试应用	适用于: IHC-P, ELISA
种属反应性	与反应: Human 预测可用于: Mouse, Rat 
免疫原	Synthetic phosphopeptide (Human) from around the phosphorylation site of serine 444 (PVS <sup>P</sup> PS).
阳性对照	Human lung carcinoma tissue

#### 性能

形式	Liquid
存放说明	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
存储溶液	Preservative: 0.02% Sodium Azide Constituents: 50% Glycerol, PBS (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), 150mM Sodium chloride, pH 7.4
纯度	Immunogen affinity purified
纯化说明	Affinity purified from rabbit antiserum by affinity chromatography using epitope specific phosphopeptide. The antibody against non phosphopeptide was removed by chromatography using non phosphopeptide corresponding to the phosphorylation site.
克隆	多克隆
同种型	IgG

#### 应用

**The Abpromise guarantee**      **Abpromise™** 承诺保证使用ab59200于以下的经测试应用

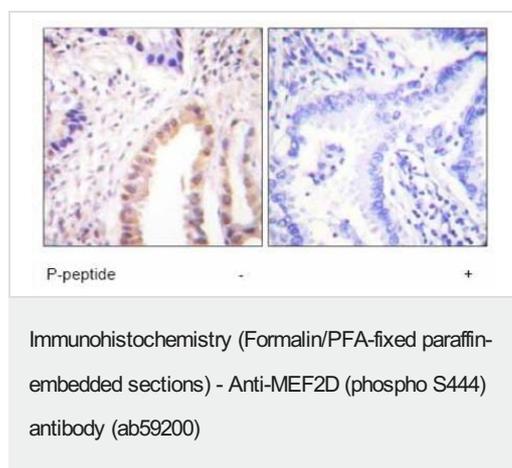
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
IHC-P		Use at an assay dependent concentration.
ELISA		1/10000.

## 靶标

<b>功能</b>	Transcriptional activator which binds specifically to the MEF2 element, 5'-YTA[AT](4)TAR-3', found in numerous muscle-specific, growth factor- and stress-induced genes. Mediates cellular functions not only in skeletal and cardiac muscle development, but also in neuronal differentiation and survival. Plays diverse roles in the control of cell growth, survival and apoptosis via p38 MAPK signaling in muscle-specific and/or growth factor-related transcription. Plays a critical role in the regulation of neuronal apoptosis.
<b>序列相似性</b>	Belongs to the MEF2 family. Contains 1 MADS-box domain. Contains 1 Mef2-type DNA-binding domain.
<b>发展阶段</b>	Present in myotubes and also in undifferentiated myoblasts.
<b>结构域</b>	The beta domain, missing in a number of isoforms, is required for enhancement of transcriptional activity.
<b>翻译后修饰</b>	Phosphorylated on Ser-444 by CDK5 is required for Lys-439 sumoylation and inhibits transcriptional activity. In neurons, enhanced CDK5 activity induced by neurotoxins promotes caspase 3-mediated cleavage leading to neuron apoptosis. Phosphorylation on Ser-180 can be enhanced by EGF. Acetylated on Lys-439 by CREBBP. Deacetylated by SIRT1. Sumoylated on Lys-439 by SUMO2 but not SUMO1; which inhibits transcriptional activity and myogenic activity. Desumoylated by SENP3. Proteolytically cleaved in cerebellar granule neurons on several sites by caspase 7 following neurotoxicity. Preferentially cleaves the CDK5-mediated hyperphosphorylated form which leads to neuron apoptosis and transcriptional inactivation.
<b>细胞定位</b>	Nucleus. Translocated by HDAC4 to nuclear dots.

## 图片



Immunohistochemical analysis of paraffin embedded human lung carcinoma tissue using ab59200 at 1/50 dilution. Samples were untreated (left) or treated with immunizing peptide (right).

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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