

### Anti-MEF2C (phospho S396) antibody ab78888

★★★★★ [8 Abreviews](#) [5 References](#) [画像数 2](#)

#### 製品の概要

製品名	Anti-MEF2C (phospho S396) antibody
製品の詳細	Rabbit polyclonal to MEF2C (phospho S396)
由来種	Rabbit
アプリケーション	<b>適用あり:</b> WB, IHC-P
種交差性	<b>交差種:</b> Mouse, Human
免疫原	Synthetic peptide corresponding to Human MEF2C (phospho S396).
特記事項	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

#### 製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
バッファー	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 50% Glycerol, 0.87% Sodium chloride, PBS  Without Mg <sup>2+</sup> and Ca <sup>2+</sup>
精製度	Immunogen affinity purified
特記事項(精製)	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.
ポリモノ	ポリクローナル
アイソタイプ	IgG

## アプリケーション

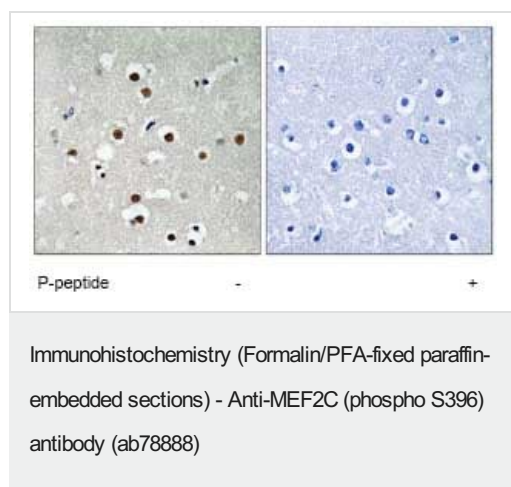
The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab78888の使用に適用されます**  
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB	★★★★☆ (4)	1/500 - 1/1000. Predicted molecular weight: 51 kDa.
IHC-P		1/50 - 1/100.

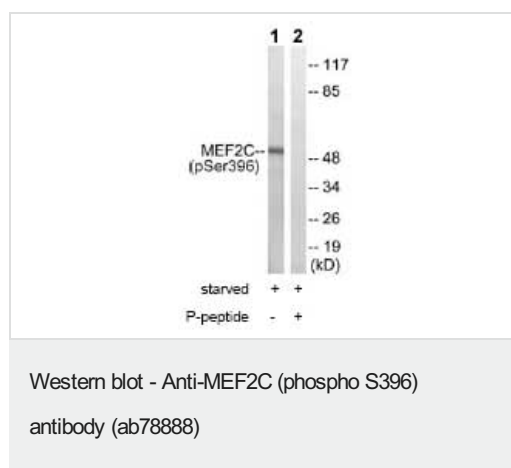
## ターゲット情報

機能	Transcription activator which binds specifically to the MEF2 element present in the regulatory regions of many muscle-specific genes. Controls cardiac morphogenesis and myogenesis, and is also involved in vascular development. Plays an essential role in hippocampal-dependent learning and memory by suppressing the number of excitatory synapses and thus regulating basal and evoked synaptic transmission. Crucial for normal neuronal development, distribution, and electrical activity in the neocortex. Necessary for proper development of megakaryocytes and platelets and for bone marrow B lymphopoiesis. Required for B-cell survival and proliferation in response to BCR stimulation, efficient IgG1 antibody responses to T-cell-dependent antigens and for normal induction of germinal center B cells. May also be involved in neurogenesis and in the development of cortical architecture (By similarity). Isoform 3 and isoform 4, which lack the repressor domain, are more active than isoform 1 and isoform 2.
組織特異性	Expressed in brain and skeletal muscle.
関連疾患	Defects in MEF2C are the cause of mental retardation-stereotypic movements-epilepsy and/or cerebral malformations (MRSME) [MIM:613443]. It is a disorder characterized by severe mental retardation, absent speech, hypotonia, poor eye contact and stereotypic movements. Dysmorphic features include high broad forehead with variable small chin, short nose with anteverted nares, large open mouth, upslanted palpebral fissures and prominent eyebrows. Some patients have seizures.
配列類似性	Belongs to the MEF2 family. Contains 1 MADS-box domain. Contains 1 Mef2-type DNA-binding domain.
発生段階	Expression is highest during the early stages of postnatal development, at later stages levels greatly decrease.
ドメイン	The beta domain, missing in a number of isoforms, is required for enhancement of transcriptional activity.
翻訳後修飾	Phosphorylation on Ser-59 enhances DNA binding activity (By similarity). Phosphorylation on Ser-396 is required for Lys-391 sumoylation and inhibits transcriptional activity. Acetylated by p300 on several sites in differentiating myocytes. Acetylation on Lys-4 increases DNA binding and transactivation. Sumoylated on Lys-391 by SUMO2 but not by SUMO1 represses transcriptional activity. Proteolytically cleaved in cerebellar granule neurons, probably by caspase 7, following neurotoxicity. Preferentially cleaves the CDK5-mediated hyperphosphorylated form which leads to neuron apoptosis and transcriptional inactivation.
細胞内局在	Nucleus.

## 画像



Immunohistochemistry analysis of paraffin-embedded Human brain tissue using ab78888 at 1/50 dilution in the absence or presence of the immunizing phosphopeptide.



**All lanes :** Anti-MEF2C (phospho S396) antibody (ab78888) at 1/500 dilution

**Lane 1 :** Extracts from 24 hours starved 3T3 cells

**Lane 2 :** Extracts from 24 hours starved 3T3 cells with immunizing phosphopeptide at 5 µg

Lysates/proteins at 20 µg per lane.

**Predicted band size:** 51 kDa

**Observed band size:** 51 kDa

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