

Recombinant Human MEF2D protein ab152520

1 图像

描述	
产品名称	重组人MEF2D蛋白
表达系统	Wheat germ
Accession	<u>Q14814-4</u>
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Human
序列	MGRKKIQIRITDERNRRVTFTKRKFGLMKKAYELSVLCDCE IALIIFNH SNKLFQYASTDMDKVLLKYTEYNEPHESRTNADIETLRKKG FNGCDSPE PDGEDSLEQSPLLEDKYRRASEELDGLFRRYGSTVPAPNFAM PVTVPVSN QSSLQFSNPSGSLVTPSLVTSSLTDPRLSPQQPALQRNSVS PGLPQRPA SAGAMLGGDLNSANGACSPVGNGYVSARASPGLLPVANGNS LNKVIPAK SPPPPHSTQLGAPSRKPDLRVITSQAGKGLMHHLNNAQRLG VSQSTHSL TTPVVS VATPSLLSQGLPFSSMPTAYNTDYQLTSAELSSLPA FSSPGGLS LGNVTAWQQPQQPQQPQQPQQPQQPQQPQQPQQPQQPQQ PPQQQSHL VPVLSNLIPGSPLPHVGAALVTTHPHISIKSEPVSPSRER SPAPPPPA VFPAARPEPGDGLSSPAGGSYETGDRDDGRGDFGPTLGLLRP APEPEAEG SAVKRMRLDTWTLK
预测分子量	82 kDa including tags
氨基酸	1 to 514
标签	GST tag N-Terminus
技术指标	

Our **Abpromise guarantee** covers the use of **ab152520** in the following tested applications.

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

**应用**

ELISA

Western blot

SDS-PAGE

**形式**

Liquid

**补充说明**

## 制备和贮存

**稳定性和存储**

Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.

pH: 8.00

Constituents: 0.31% Glutathione, 0.79% Tris HCl

## 常规信息

**功能**

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.

**序列相似性**

Belongs to the MEF2 family.

Contains 1 MADS-box domain.

Contains 1 Mef2-type DNA-binding domain.

**发展阶段**

Present in myotubes and also in undifferentiated myoblasts.

**结构域**

The beta domain, missing in a number of isoforms, is required for enhancement of transcriptional activity.

**翻译后修饰**

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.

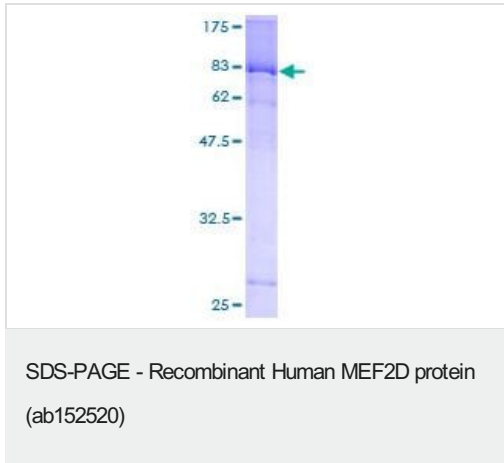
Sumoylated on Lys-439 by SUMO2 but not SUMO1; which inhibits transcriptional activity and myogenic activity. Desumoylated by SENP3.

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.

**细胞定位**

Nucleus. Translocated by HDAC4 to nuclear dots.

## 图片



12.5% SDS-PAGE analysis of ab152520 stained with Coomassie Blue.

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

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