

MEF-2D (phospho Ser444) Polyclonal Antibody

Catalog No :	YP0165
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF;ELISA
Target :	MEF-2D
Fields :	>>cGMP-PKG signaling pathway;>>Apelin signaling pathway;>>Parathyroid hormone synthesis, secretion and action
Gene Name :	MEF2D
Protein Name :	Myocyte-specific enhancer factor 2D
Human Gene Id :	4209
Human Swiss Prot No :	Q14814
Mouse Swiss Prot No :	Q63943
Rat Gene Id :	81518
Rat Swiss Prot No :	O89038
Immunogen :	The antiserum was produced against synthesized peptide derived from human MEF2D around the phosphorylation site of Ser444. AA range:410-459
Specificity :	Phospho-MEF-2D (S444) Polyclonal Antibody detects endogenous levels of MEF-2D protein only when phosphorylated at S444.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:10000.. IF 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration : 1 mg/ml

Storage Stability : -15°C to -25°C/1 year (Do not lower than -25°C)

Observed Band : 55kD

Background : This gene is a member of the myocyte-specific enhancer factor 2 (MEF2) family of transcription factors. Members of this family are involved in control of muscle and neuronal cell differentiation and development, and are regulated by class II histone deacetylases. Fusions of the encoded protein with Deleted in Azoospermia-Associated Protein 1 (DAZAP1) due to a translocation have been found in an acute lymphoblastic leukemia cell line, suggesting a role in leukemogenesis. The encoded protein may also be involved in Parkinson disease and myotonic dystrophy. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2012],

Function : developmental stage: Present in myotubes and also in undifferentiated myoblasts., domain: The beta domain, missing in a number of isoforms, is required for enhancement of transcriptional activity., function: 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., PTM: Acetylated on Lys-439 by CREBBP. Deacetylated by SIRT1., PTM: Phosphorylated on Ser-444 by CDK5 is required for Lys-439 sumoylation and inhibits transcriptional activity.

Subcellular Location : Nucleus . Translocated by HDAC4 to nuclear dots.

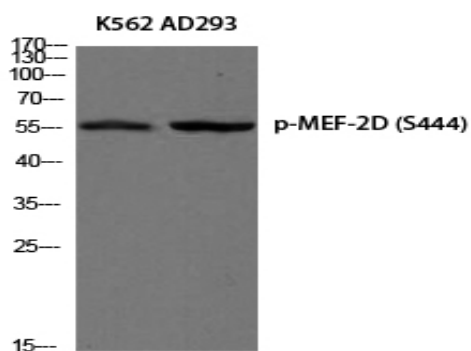
Expression : Blood, Brain, Epithelium, Eye, Myocardium, Testis,

Tag : orthogonal

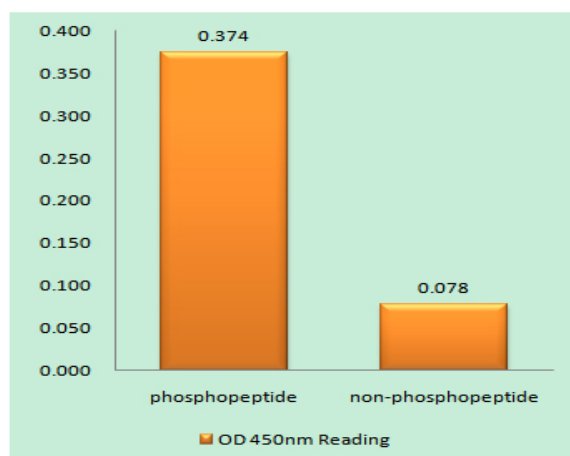
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No4 : 1

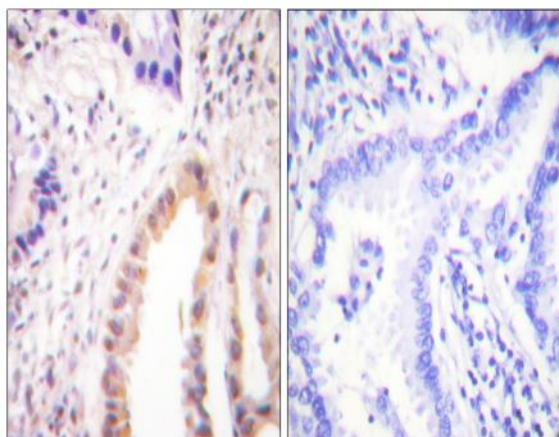
Products Images



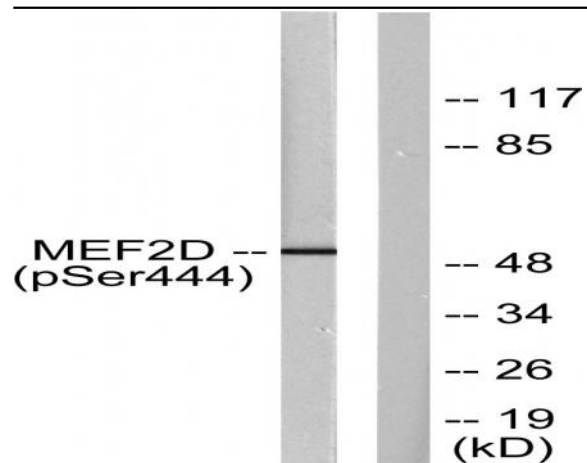
Western blot analysis of K562 AD293 using Phospho-MEF-2D (S444) antibody. Antibody was diluted at 1:500



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using MEF2D (Phospho-Ser444) Antibody



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma, using MEF2D (Phospho-Ser444) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from HepG2 cells treated with forskolin 40nM 30', using MEF2D (Phospho-Ser444) Antibody. The lane on the right is blocked with the phospho peptide.