For Research Use Only

MEF2A Recombinant monoclonal antibody, PBS Only (Detector)

Catalog Number:87660-2-PBS

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
87660-2-PBS

Size:
100ug , Concentration: 1 mg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG41519

GenBank Accession Number:
BC013437

GeneID (NCBI):
4205

UNIPROT ID:
Q02078

Full Name:
myocyte enhancer factor 2A

Calculated MW:
499 aa, 54 kDa

Observed MW:
50-70kDa

Purification Method:
Protein A purification

CloneNo.:
253110B3

Applications

Tested Applications:
WB, IF/ICC, Sandwich ELISA, Indirect ELISA

Species Specificity:
human, mouse, rat

Product Information

87660-2-PBS targets MEF2A as part of a matched antibody pair:

MP03216-1: 87660-3-PBS capture and 87660-2-PBS detection (validated in Sandwich ELISA)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications.Antibody use should be optimized by the end user for each application and assay.

Background Information

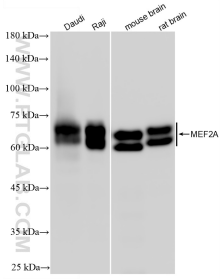
MEF2A belongs to a family of DNA binding regulatory proteins. Each of these proteins which belong to the myocyte-specific enhancer factor-2 (MEF2) family binds to the MEF2 target DNA sequence present in the regulatory regions of many, if not all, muscle-specific genes. MEF2A plays diverse roles in the control of cell growth, survival and apoptosis via p38 MAPK signaling in muscle-specific and/or growth factor-related transcription. MEF2A also has key roles in cardiac and skeletal muscle development. MEF2A is especially abundant in granule neurons of the cerebellar cortex throughout the period of synaptogenesis. This antibody can detect two bands around 60 kDa to 70 kDa, the larger band may correspond to its post-translational modifications.(PMID: 15483225,16484498, 23486945)

Storage

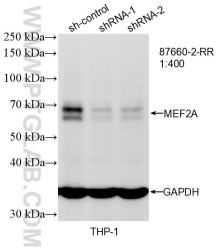
Storage:
Store at -80°C.
Storage Buffer:
PBS only, pH7.3

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

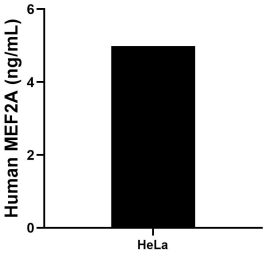
Selected Validation Data



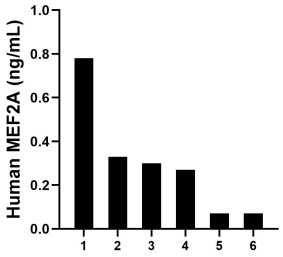
Various lysates were subjected to SDS PAGE followed by western blot with 87660-2-RR (MEF2A antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 87660-2-PBS in a different storage buffer formulation.



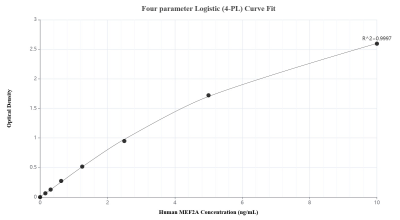
WB result of MEF2A antibody (87660-2-RR; 1:400; incubated at room temperature for 1.5 hours) with sh-Control and sh-MEF2A transfected THP-1 cells. This data was developed using the same antibody clone with 87660-2-PBS in a different storage buffer formulation.



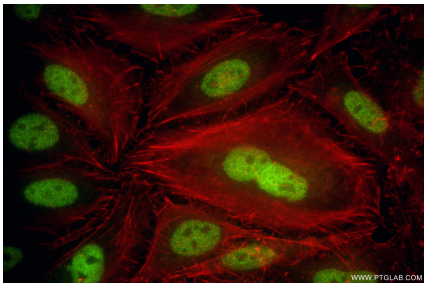
The mean MEF2A concentration was determined to be 4.99 ng/mL in HeLa cell extract based on a 1.20 mg/mL extract load.



Plasma of six individual healthy human donors was measured. The MEF2A concentration of detected samples was determined to be 0.30 ng/mL with a range of 0.07-0.78 ng/mL.



Sandwich ELISA standard curve of MP03216-1, Human MEF2A Recombinant Matched Antibody Pair - PBS only. 87660-3-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag41519. 87660-2-PBS was HRP conjugated as the detection antibody. Range: 0.156-10 ng/mL.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using MEF2A antibody (87660-2-RR, Clone: 253110B3) at dilution of 1:500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 87660-2-PBS in a different storage buffer formulation.