Revision 1

Store at -20C

#5030

# MEF2C (D80C1) XP® Rabbit mAb

Cell Signaling TECHNOLOGY®

**Orders:** 877-616-CELL (2355)
orders@cellsignal.com

**Support:** 877-678-TECH (8324)

**Web:** info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

**For Research Use Only. Not for Use in Diagnostic Procedures.**

| Applications: | Reactivity: | Sensitivity: | MW (kDa): | Source/Isotype: | UniProt ID: | Entrez-Gene Id: |
|---|---|---|---|---|---|---|
| W, IP, IF-IC | H M | Endogenous | 50-60 | Rabbit IgG | #Q06413 | 4208 |

## Product Usage Information

| Application | Dilution |
|---|---|
| Western Blotting | 1:1000 |
| Immunoprecipitation | 1:50 |
| Immunofluorescence (Immunocytochemistry) | 1:400 |

## Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.

## Specificity/Sensitivity

MEF2C (D80C1) XP® Rabbit mAb detects endogenous levels of total MEF2C protein.

## Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to a region surrounding Met182 of human MEF2C protein.

## Background

MEF2C is a member of the MEF2 (myocyte enhancer factor 2) family of transcription factors. In mammals, there are four MEF2C-related genes (MEF2A, MEF2B, MEF2C and MEF2D) that encode proteins that exhibit significant amino acid sequence similarity within their DNA binding domains and, to a lesser extent, throughout the rest of the proteins (1). The MEF2 family members were originally described as muscle-specific DNA binding proteins that recognize MEF2 motifs found within the promoters of many muscle-specific genes (2,3). Recently, several groups have reported MEF2 binding activity and MEF2 proteins in a wide variety of cell types where these proteins appear to play an important role in growth factor- and stress-induced early gene responses (4-6).

## Background References

1. Shore, P. et al. (1995) *Eur. J. Biochem.* 229, 1-13.
2. Martin, J. F. et al. (1994) *Mol. Cell. Biol.* 14, 1647-1656.
3. Yu, Y. T. et al. (1992) *Genes Dev.* 6, 1783-1798.
4. Han, J. et al. (1997) *Nature* 386, 296-299.
5. Kato, Y. et al. (1997) *EMBO J.* 16, 7054-7066.
6. Zhao, M. et al. (1999) *Mol. Cell. Biol.* 19, 21-30.

## Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

## Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

## Applications Key

**W:** Western Blotting **IP:** Immunoprecipitation **IF-IC:** Immunofluorescence (Immunocytochemistry)

## Cross-Reactivity Key

**H:** Human **M:** Mouse

## Trademarks and Patents



## Limited Uses

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