#5030 Store at -20°C

# MEF2C (D80C1) XP® Rabbit mAb

Cell Signaling TECHNOLOGY®

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**For Research Use Only. Not For Use In Diagnostic Procedures.**

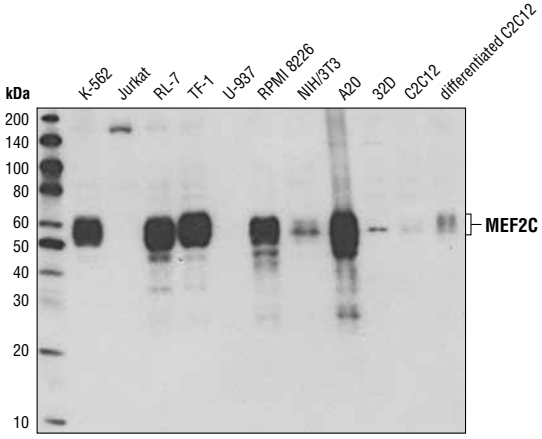
**Entrez-Gene ID** #4208
**UniProt ID** #Q06413

| Applications | Species Cross-Reactivity* | Molecular Wt. | Isotype |
|---|---|---|---|
| W, IP, IF-IC<br>Endogenous | H, M | 50-60 kDa | Rabbit IgG** |

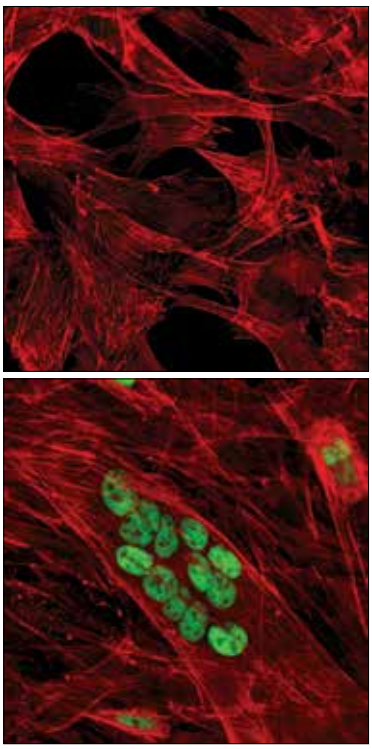
**Background:** MEF2C is a member of the MEF2 (myocyte enhancer factor 2) family of transcription factors. In mammals, there are four MEF2C-related genes (MEF2A, MEF2B, MEF2C and MEF2D) that encode proteins that exhibit significant amino acid sequence similarity within their DNA binding domains and, 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).

**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.




*Western blot analysis of extracts from various cells lines using MEF2C (D80C1) XP® Rabbit mAb.*



*Confocal immunofluorescent analysis of C2C12 cells, undifferentiated (upper) or differentiated for 3 days (lower), using MEF2C (D80C1) XP® Rabbit mAb (green). Actin filaments were labeled with DyLight™ 554 Phalloidin #13054 (red).*

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

***Species cross-reactivity is determined by western blot.**

****Anti-rabbit secondary antibodies must be used to detect this antibody.**

**Recommended Antibody Dilutions:**

| | |
|---|---|
| Western blotting | 1:1000 |
| Immunoprecipitation | 1:50 |
| Immunofluorescence (IF-IC) | 1:400 |

**For application specific protocols please see the web page for this product at www.cellsignal.com.**

**Please visit www.cellsignal.com for a complete listing of recommended companion products.**

**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.

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

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Tween is a registered trademark of ICI Americas, Inc.

**Applications Key:** **W**—Western **IP**—Immunoprecipitation **IHC**—Immunohistochemistry **ChIP**—Chromatin Immunoprecipitation **IF**—Immunofluorescence **F**—Flow cytometry **E-P**—ELISA-Peptide

**Species Cross-Reactivity Key:** **H**—human **M**—mouse **R**—rat **Hm**—hamster **Mk**—monkey **Mi**—mink **C**—chicken **Dm**—D. melanogaster **X**—Xenopus **Z**—zebrafish **B**—bovine **Dg**—dog **Pg**—pig **Sc**—S. cerevisiae **Ce**—C. elegans **Hr**—horse **All**—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.

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