

## DESCRIPTION

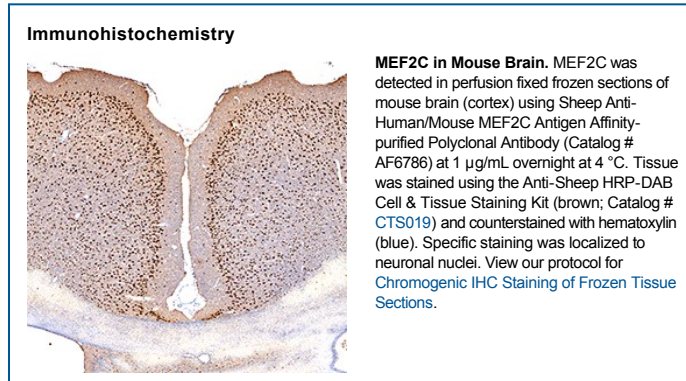
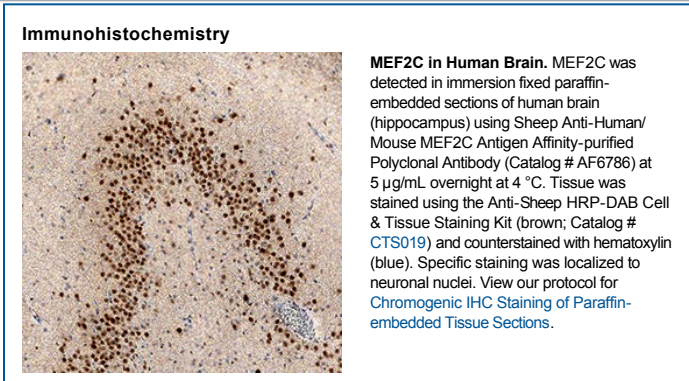
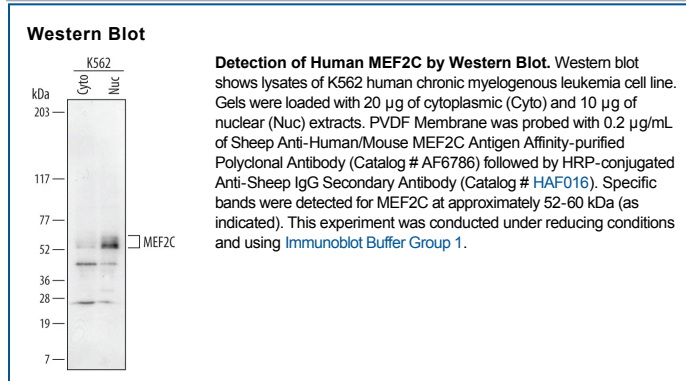
<b>Species Reactivity</b>	Human/Mouse
<b>Specificity</b>	Detects human MEF2C in direct ELISAs and Western blots.
<b>Source</b>	Polyclonal Sheep IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human MEF2C Ala135-Lys239 Accession # Q06413
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	0.2 µg/mL	See Below
<b>Immunohistochemistry</b>	1-15 µg/mL	See Below

## DATA



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.2 mg/mL.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## BACKGROUND

MEF2C (Myocyte enhancer factor-2C) is a transcriptional activator that is a member of the MEF2 subfamily, MADS (MCM1, Agamous, Deficiens, Serum response factor) gene family of proteins. Although its predicted MW is 51 kDa, it runs anomalously at 57 kDa in SDS-PAGE. It is expressed in B cells, plus postmitotic neurons and skeletal muscle cells that are undergoing differentiation. Human MEF2C is 473 amino acids (aa) in length. It contains a MADS box for dimerization (aa 3-57), a DNA binding domain (aa 58-86), a beta-domain that enhances transcription (aa 271-278), a gamma-domain that, when phosphorylated, promotes transcriptional repression (aa 390-399), and seven acetylation sites plus multiple Ser/Thr phosphorylation sites. Sumoylation occurs on Lys391, and proteolytic cleavage of MEF2C occurs in neurons between Asp432Gly433. Multiple splice forms exist. Either individually or in combination, there may be a deletion of aa 271-278, 368-399 or 87-134, a 46 aa substitution for aa 107-134 and 87-134, and an alternative start site 35 aa upstream of the standard site. Over aa 135-239, human MEF2C shares 96% aa identity with mouse MEF2C.