

## Product datasheet for CF502565

### MEF2C Mouse Monoclonal Antibody [Clone ID: OT1H5]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OT1H5
Applications:	FC, IF, IHC, WB
Recommended Dilution:	WB 1:2000, IHC 1:150, IF 1:100, FLOW 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human MEF2C (NP_002388) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	51 kDa
Gene Name:	myocyte enhancer factor 2C
Database Link:	<a href="#">NP_002388</a> <a href="#">Entrez Gene 17260 Mouse</a> <a href="#">Entrez Gene 499497 Rat</a> <a href="#">Entrez Gene 4208 Human</a> <a href="#">Q06413</a>


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**Background:**

This locus encodes a member of the MADS box transcription enhancer factor 2 (MEF2) family of proteins, which play a role in myogenesis. The encoded protein, MEF2 polypeptide C, has both trans-activating and DNA binding activities. This protein may play a role in maintaining the differentiated state of muscle cells. Mutations and deletions at this locus have been associated with severe mental retardation, stereotypic movements, epilepsy, and cerebral malformation. Alternatively spliced transcript variants have been described. [provided by RefSeq]

**Synonyms:**

C5DELq14.3; DEL5q14.3

**Protein Families:**

Transcription Factors

**Protein Pathways:**

MAPK signaling pathway

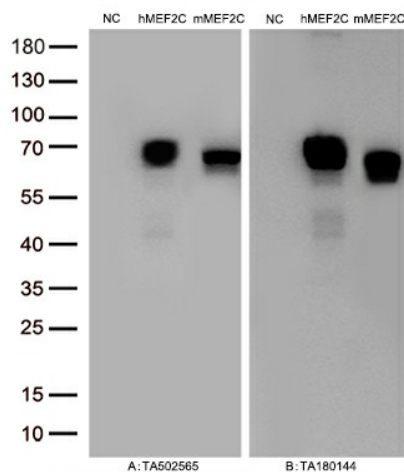
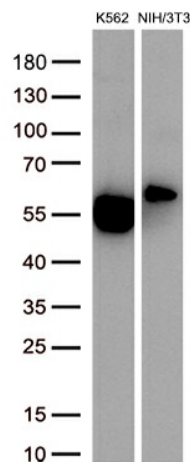
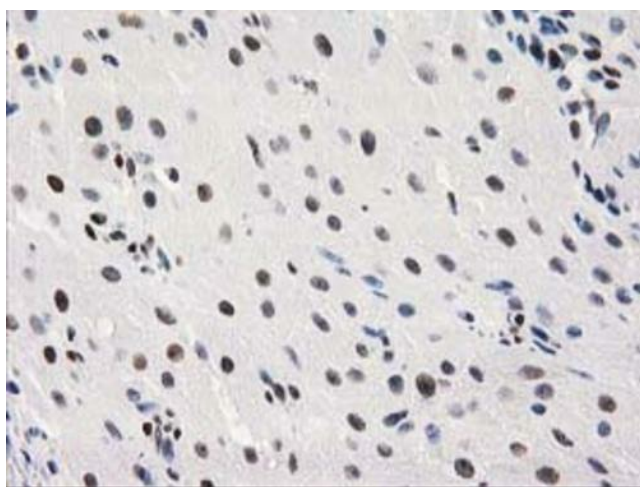
**Product images:**


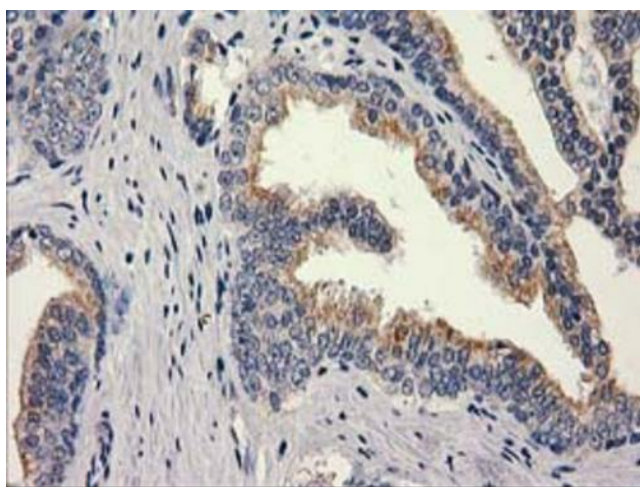
Figure A, Western blot analysis of overexpressed lysates (15ug per lane) from HEK293T cells transfected with empty plasmid ([PS100001], NC), human MEF2C plasmid ([RC220584], hMEF2C), mouse MEF2C plasmid ([MR226865], mMEF2C) using anti-MEF2C antibody [TA502565] (1:5000@1mg/ml). Figure B, Western blot analysis of the same samples as figure A with anti-DDK antibody ([TA180144], 1:10000@1mg/ml).



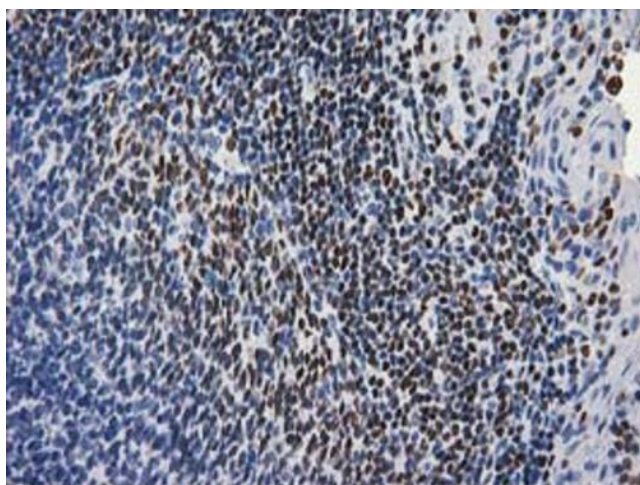
Western blot analysis of extracts (30ug per lane) from 2 different cell lines lysates by using anti-MEF2C antibody ([TA502565], 1:1000@1mg/ml).



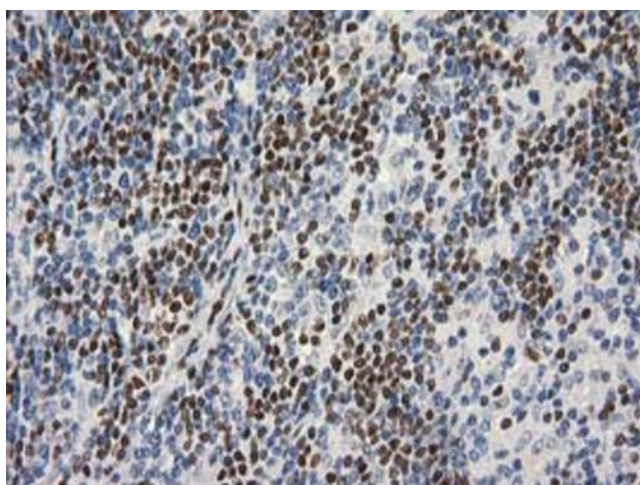
Immunohistochemical staining of paraffin-embedded Human Ovary tissue within the normal limits using anti-MEF2C mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



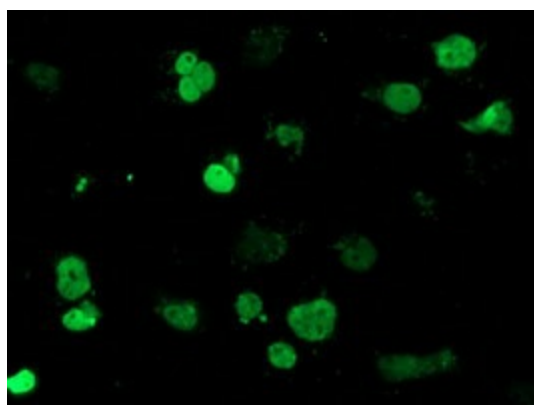
Immunohistochemical staining of paraffin-embedded Carcinoma of Human prostate tissue using anti-MEF2C mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



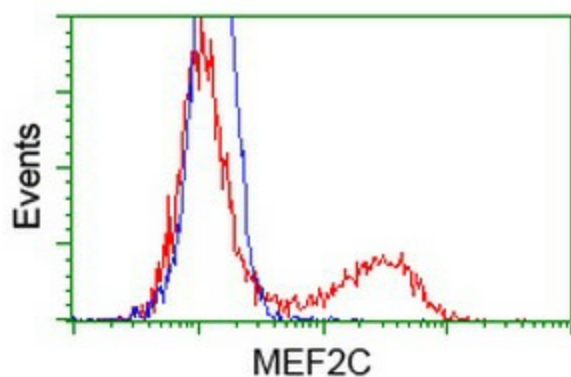
Immunohistochemical staining of paraffin-embedded Human lymph node tissue within the normal limits using anti-MEF2C mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



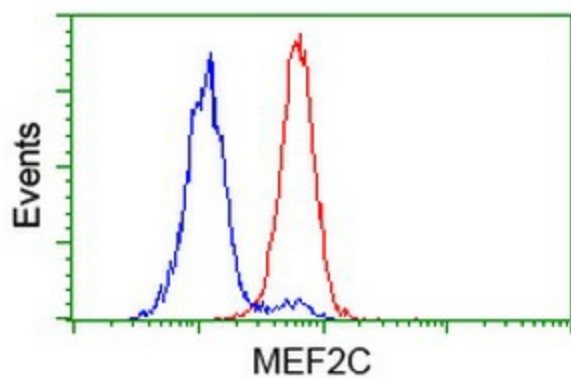
Immunohistochemical staining of paraffin-embedded Human lymphoma tissue using anti-MEF2C mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



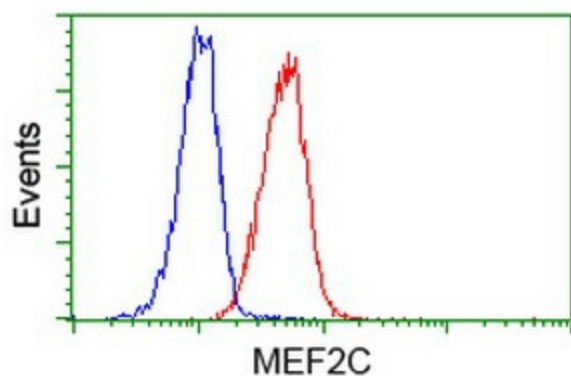
Anti-MEF2C mouse monoclonal antibody ([TA502565]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY MEF2C ([RC220584] ).



HEK293T cells transfected with either [RC220584] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-MEF2C antibody ([TA502565]), and then analyzed by flow cytometry.



Flow cytometric Analysis of HeLa cells, using anti-MEF2C antibody ([TA502565]), (Red), compared to a nonspecific negative control antibody (TA50011), (Blue).



Flow cytometric Analysis of Jurkat cells, using anti-MEF2C antibody ([TA502565]), (Red), compared to a nonspecific negative control antibody (TA50011), (Blue).