

# Product Datasheet

## MEF2C Antibody (OT11H5)

### NBP2-00493

Unit Size: 0.1 ml

Store at -20C. Avoid freeze-thaw cycles.

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**NBP2-00493**

MEF2C Antibody (OT11H5)

Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	OT11H5
Preservative	0.02% Sodium Azide
Isotype	IgG1
Purity	Immunogen affinity purified
Buffer	PBS (pH 7.3), 1.0% BSA and 50% Glycerol
Target Molecular Weight	51 kDa

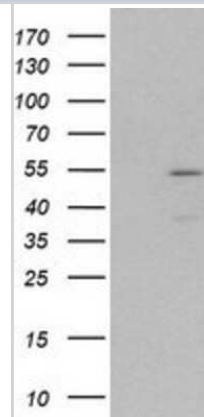
Product Description	
Description	Novus Biologicals Mouse MEF2C Antibody (OT11H5) (NBP2-00493) is a monoclonal antibody validated for use in IHC, WB, Flow and ICC/IF. Anti-MEF2C Antibody: Cited in 3 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	4208
Gene Symbol	MEF2C
Species	Human, Mouse, Rat
Reactivity Notes	Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Mouse-On-Mouse blocking reagent may be needed for IHC and ICC experiments to reduce high background signal. You can find these reagents under catalog numbers PK-2200-NB and MP-2400-NB. Please contact Technical Support if you have any questions.
Immunogen	Full length human recombinant protein of human MEF2C (NP_002388) produced in HEK293T cell.

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:2000, Flow Cytometry 1:100, Immunohistochemistry 1:150, Immunocytochemistry/ Immunofluorescence 1:100, Immunohistochemistry-Paraffin 1:150

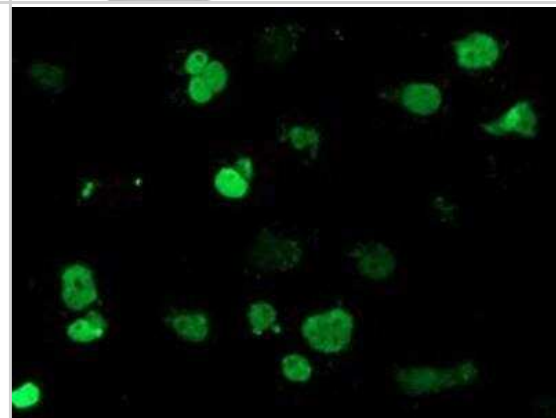


## Images

Western Blot: MEF2C Antibody (1H5) [NBP2-00493] - HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY MEF2C (Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-MEF2C.



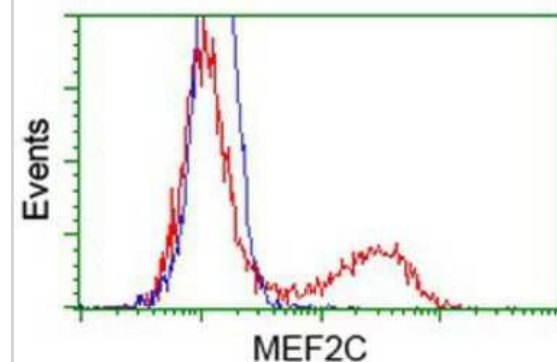
Immunocytochemistry/Immunofluorescence: MEF2C Antibody (OT11H5) [NBP2-00493] - MEF2C Antibody (1H5) [NBP2-00493] - Staining of COS7 cells transiently transfected by pCMV6-ENTRY MEF2C.



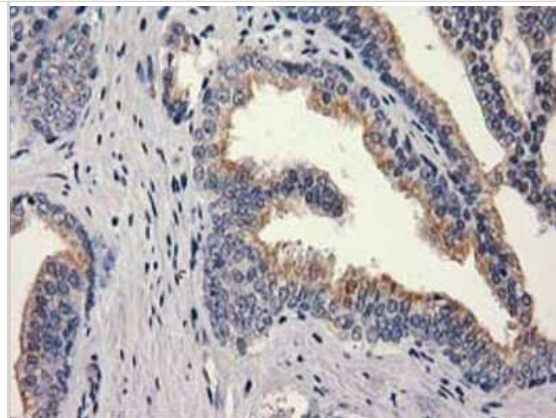
Immunohistochemistry-Paraffin: MEF2C Antibody (1H5) [NBP2-00493] - Staining of paraffin-embedded Human Ovary tissue using anti-MEF2C mouse monoclonal antibody.



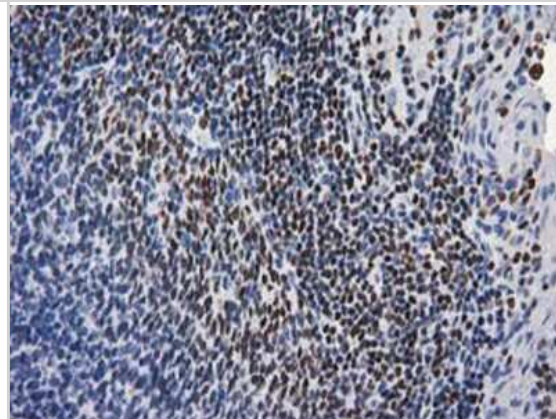
Flow Cytometry: MEF2C Antibody (1H5) [NBP2-00493] - HEK293T cells transfected with either overexpression plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-MEF2C antibody, and then analyzed by flow cytometry.



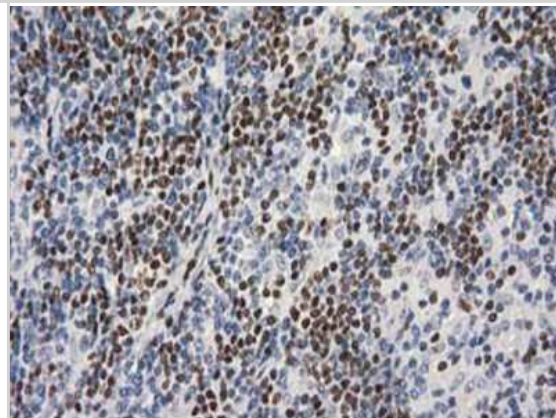
Immunohistochemistry-Paraffin: MEF2C Antibody (1H5) [NBP2-00493] - Staining of paraffin-embedded Carcinoma of Human prostate tissue using anti-MEF2C mouse monoclonal antibody.



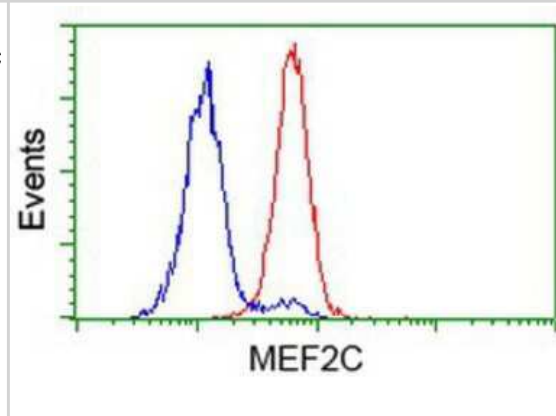
Immunohistochemistry-Paraffin: MEF2C Antibody (1H5) [NBP2-00493] - Staining of paraffin-embedded Human lymph node tissue using anti-MEF2C mouse monoclonal antibody.



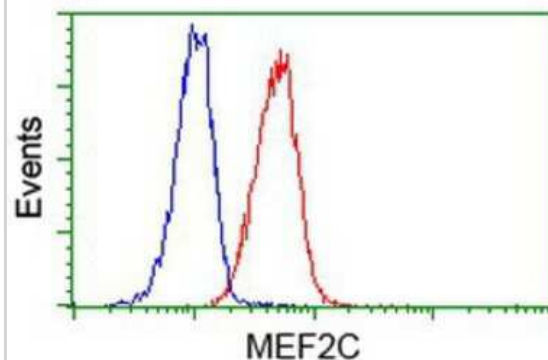
Immunohistochemistry-Paraffin: MEF2C Antibody (1H5) [NBP2-00493] - Staining of paraffin-embedded Human lymphoma tissue using anti-MEF2C mouse monoclonal antibody.



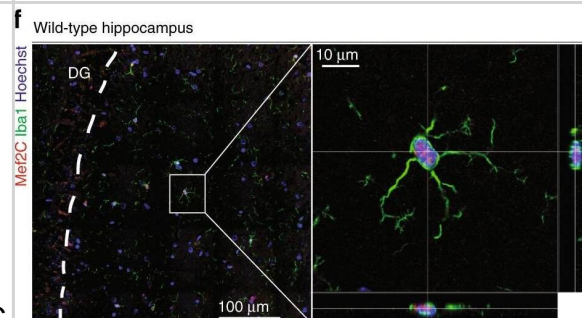
Flow Cytometry: MEF2C Antibody (1H5) [NBP2-00493] - Analysis of Hela cells, using anti-MEF2C antibody, (Red), compared to a nonspecific negative control antibody (Blue).



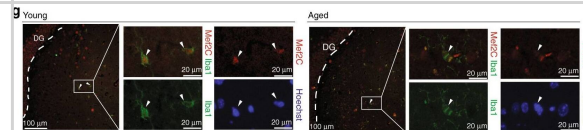
Flow Cytometry: MEF2C Antibody (1H5) [NBP2-00493] - Analysis of Jurkat cells, using anti-MEF2C antibody, (Red), compared to a nonspecific negative control antibody (Blue).



Microglial expression of Mef2C is reduced upon IFN-I overexpression and ageing. a, b mRNA expression levels of Mef2C (number of reads) in microglia of young and aged (a) and young AAV-IFN $\beta$ - and AAV-CTRL-infected mice (b). \*\*P < 0.01, \*P < 0,05; unpaired t-test, n = 5 per group. c Correlation between expression levels of Mef2C and IFN-I-dependent Ifit1 in microglia of non-manipulated young and aged mice, young mice infected with AAV-IFN $\beta$  or AAV-CTRL and aged mice injected with anti-IFNAR antibody (data combined from Supplementary Datasets 1-3; Pearson R2 = 0.378, P < 0.0001, n = 34). d, e Correlation analysis between expression levels of IFN-I-dependent Irf7 and Isg15, and Mef2C reveals negative relationship in mic-IFNAR-CTRL microglia (n = 8) (d) but not in micIFNAR-KO microglia (n = 13) (e) suggesting direct effect of IFN-I on microglial expression levels of Mef2C. f Confocal images of nuclear (Hoechst nuclear staining in blue) Mef2C (red) expression in Iba1+ microglia (green) from adult wild-type mouse using orthogonal projections of confocal z-stacks. g, h Representative pictures of Mef2C staining (red), Iba1+ (green) microglia and Hoechst nuclear staining (blue) in hippocampal sections of non-manipulated young and aged mice (g) and young mice infected with AAV-IFN $\beta$  or AAV-CTRL (h) Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/28959042>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



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## Publications

Bjorness TE, Kulkarni A, Rybalchenko V et al. An essential role for MEF2C in the cortical response to loss of sleep in mice eLife 2020-08-27 [PMID: 32851972] (Immunohistochemistry-Paraffin, Human)

Mossink B, van Rhijn JR, Wang S, van Hugte E Cadherin-13 is a critical regulator of GABAergic modulation in human stem cell derived neuronal networks Mol Psychiatry 2021-05-11 [PMID: 33972691]

Deczkowska A, Matcovitch-Natan O, Tsitsou-Kampeli A et al. Mef2C restrains microglial inflammatory response and is lost in brain ageing in an IFN-I-dependent manner. Nat Commun. 2017-09-28 [PMID: 28959042] (IHC-P, Human)





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### **Products Related to NBP2-00493**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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