

# IHCeasy<sup>®</sup> MEF2C Ready-To-Use IHC Kit

Catalog Number: **KHC1680**

## General Information

Sample type:  
FFPE tissue  
Cited sample type:  
Reactivity:  
Human, Mouse, Rat  
Cited Reactivity:

Assay type:  
Immunohistochemistry  
Primary antibody type:  
Rabbit Polyclonal  
Secondary antibody type:  
Polymer-HRP-Goat anti-Rabbit

## Kit Component

Component	Size	Concentration
Antigen Retrieval Buffer	100 mL	50×
Washing Buffer	100 mL ×2	20×
Blocking Buffer	5 mL	RTU
Primary Antibody	5 mL	RTU
Secondary Antibody	5 mL	RTU
Chromogen Component A	0.2 mL	RTU
Chromogen Component B	4 mL	RTU
Signal Enhancer	5 mL	RTU
Counter Staining Reagent	5 mL	RTU
Mounting Media	5 mL	RTU
Control Slide	1 slide (Optional)	FFPE
Datasheet	1 Copy	
Manual	1 Copy	

## Storage Instructions

All the reagents are stored at 2-8°C. The kit is stable for 6 months from the date of receipt.

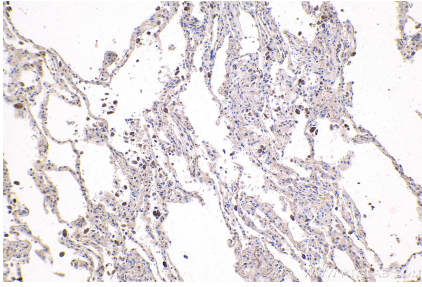
## Background

MEF2C belongs to the MEF2 family. It is a transcription activator which binds specifically to the MEF2 element present in the regulatory regions of many muscle-specific genes. MEF2C controls cardiac morphogenesis and myogenesis, and is also involved in vascular development. It plays an essential role in hippocampal-dependent learning and memory by suppressing the number of excitatory synapses and thus regulating basal and evoked synaptic transmission. It is crucial for normal neuronal development, distribution, and electrical activity in the neocortex and is necessary for proper development of megakaryocytes and platelets and for bone marrow B lymphopoiesis. This protein is required for B-cell survival and proliferation in response to BCR stimulation, efficient IgG1 antibody responses to T-cell-dependent antigens and for normal induction of germinal center B cells. It may also be involved in neurogenesis and in the development of cortical architecture.

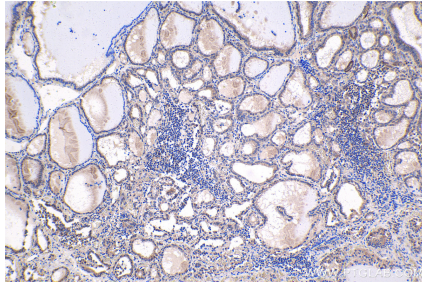
## Synonyms

MEF2C, myocyte enhancer factor 2C

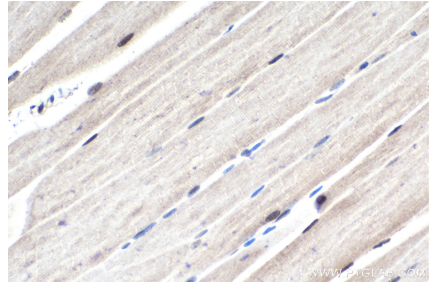
## Selected Validation Data



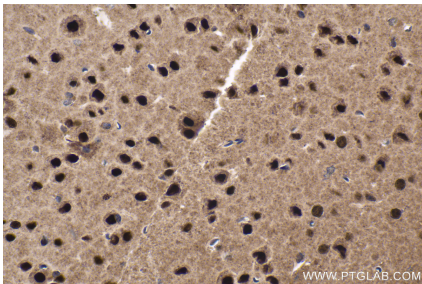
Immunohistochemical analysis of paraffin-embedded human lung tissue slide using KHC1680 (MEF2C IHC Kit).



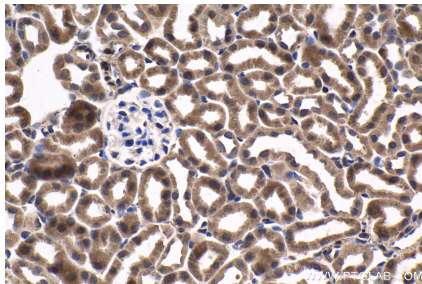
Immunohistochemical analysis of paraffin-embedded human thyroid cancer tissue slide using KHC1680 (MEF2C IHC Kit).



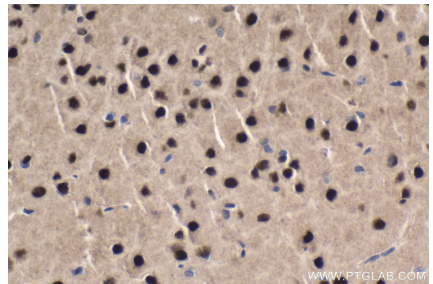
Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using KHC1680 (MEF2C IHC Kit).



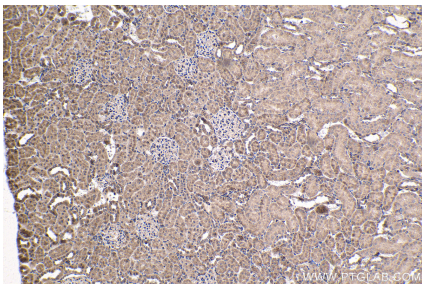
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using KHC1680 (MEF2C IHC Kit).



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using KHC1680 (MEF2C IHC Kit).



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using KHC1680 (MEF2C IHC Kit).



Immunohistochemical analysis of paraffin-embedded rat kidney tissue slide using KHC1680 (MEF2C IHC Kit).