

# MASH1 Monoclonal Antibody (24B72D11), eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse, Rat
Published Species	Mouse
Host/Isotope	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	24B72D11
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage Conditions	4° C
RRID	AB_2572887

Applications	Tested	Dilution	Published
Immunohistochemistry (IHC)	-	1:100	1 Publication
Immunocytochemistry (ICC)	✓	20 µg/mL	
Immunofluorescence (IF)	✓	20 µg/mL	
Immunohistochemistry (Frozen) (IHC (F))	✓	Assay-Dependent	
Western Blot (WB)	✓	5 µg/mL	

## Product Specific Information

**Description:** The monoclonal antibody 24B72D11 recognizes mouse and rat Mammalian achaete-scute homolog 1 (MASH1), a 34 kDa basic helix-loop-helix (bHLH) transcription factor. MASH1, like family members Olig2 and Ngn2, is expressed in progenitor cells throughout the nervous system and retina and is a key regulator of cell fate specification. Expression of MASH1 is regulated by the Delta/Notch1 pathway through direct binding of Hes1 to MASH1 as well as competitive binding to MASH1 hetero-dimerizing proteins. At a transcriptional level, MASH1 expression is controlled by notch-mediated regulation of sox2, which binds to the MASH1 promoter region up-regulating expression. MASH1 has been implicated in the formation of multiple neural cell types including dopaminergic, serotonergic, glutaminergic and GABAergic neurons. Overexpression of MASH1 has been shown in small cell lung carcinoma and medullary thyroid cancer.

**Applications Reported:** This 24B72D11 antibody has been reported for use in western blotting, immunohistochemical staining of frozen tissue sections, and immunocytochemistry.

**Applications Tested:** This 24B72D11 antibody has been tested by western blot on reduced PC12 cells and can be used at less than or equal to 5 µg/mL. The 24B72D11 antibody has also been tested by immunocytochemistry on fixed and permeabilized PC12

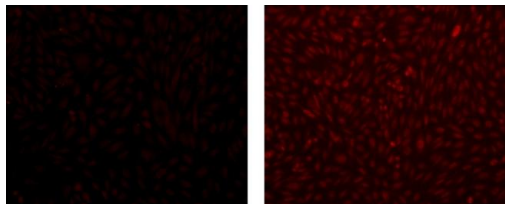
cells at can be used at less than or equal to 20 µg/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

## Product Images For MASH1 Monoclonal Antibody (24B72D11), eBioscience™



### MASH1 Antibody (14-5794-82) in ICC

Immunocytochemistry of PC-12 cells stained with 20 µg/mL Mouse IgG1 Isotype Control (left) or 20 µg/mL Anti-Mouse/Rat MASH1 Purified (right) followed by Anti-Mouse IgG TRITC.

## 1 Reference

### Immunohistochemistry (1)

#### Nature neuroscience

#### Neural stem cells sustain natural killer cells that dictate recovery from brain inflammation.

"14-5794 was used in Immunohistochemistry to reveal that reciprocal interactions between neural stem cells and natural killer cells regulate neurorepair."

Authors: Liu Q, Sanai N, Jin WN, La Cava A, Van Kaer L, Shi FD

**Species**  
Mouse

**Dilution**  
1:100

**Year**  
2016

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