

HuC/HuD Monoclonal Antibody (16A11)

Product Details	
Size	100 µg
Species Reactivity	Avian, Chicken, Human, Zebrafish
Published Species	Avian, Rat, Pig, Reptile, Non-human primate, Shark, Rodent, Shrew, Sheep, Zebrafish, Fish, Mouse, Human, Chicken, Xenopus, Horse, Guinea pig, Rabbit
Host/Isotope	Mouse / IgG2b, kappa
Class	Monoclonal
Type	Antibody
Clone	16A11
Conjugate	Unconjugated
Immunogen	Human HuC/HuD neuronal protein.
Form	Lyophilized
Purification	purified
Contains	no preservative
Storage Conditions	-20°C
RRID	AB_221448

Applications	Tested	Dilution	Published
Immunofluorescence (IF)	✓	5-20 µg/mL	54 Publications
Immunohistochemistry (IHC)	-	1:500	169 Publications
Immunohistochemistry (Frozen) (IHC (F))	✓	5-20 µg/mL	33 Publications
Western Blot (WB)	✓	1-5 µg/mL	9 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	1:200	23 Publications
Immunocytochemistry (ICC)	-	1:400	42 Publications
Miscellaneous PubMed (MISC)	-	1:50	47 Publications
Immunohistochemistry - Free Floating (IHC (Free))	-	1:200	4 Publications
ELISA (ELISA)	-		1 Publication

Product Specific Information

This antibody recognizes the Elav family members HuC, HuD and Hel-N1 neuronal proteins. It does not recognize HuR, another Elav family member that is present in all proliferating cells. The antibody has been shown to specifically label neuronal cells in zebrafish, chick, canaries, and humans, and is likely to label neuronal cells in most vertebrate species. Labeling is visible early in development, at about the time that the neurons leave the mitotic cycle.

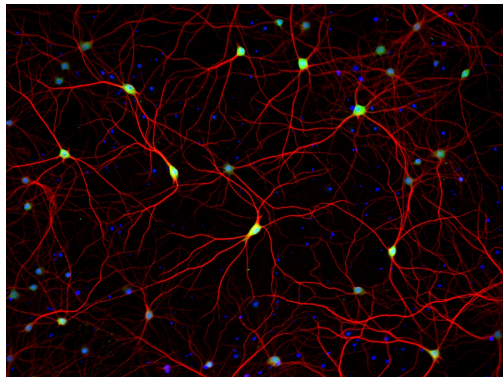
Storage and reconstitution: Upon receipt, lyophilized antibodies should be stored desiccated at -20°C or lower. When properly stored, these products are stable for at least one year. To prepare stock solution, reconstitute the antibody in 0.5-1 mL PBS, pH

7.4, containing 1% BSA. Store the solution for up to two weeks at 4°C with the addition of 2mM sodium azide. For longer storage, divide solutions into single-use aliquots and freeze at -20°C, avoiding freeze/thaw cycles.

For best results in immunohistochemistry, antigen retrieval is required. Use 50mM Tris, pH 8.0, for 30 minutes.

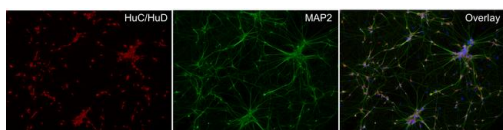
A-21271 was successfully used to detect HuC/HuD in neurons differentiated from H9 ESC derived NSCs.

Product Images For HuC/HuD Monoclonal Antibody (16A11)



HuC/HuD Antibody (A-21271) in IF

Immunofluorescent analysis of HuC/D (green) and MAP2 (red) on rat primary cortical neurons cultured for 28 days in the B-27 Plus Neuronal Culture System (Product # A3653401). At day 28 the cells were fixed with 4% paraformaldehyde for 15 min, permeabilized with 0.1% triton x-100 for 30min, and blocked with 1% BSA for 30 min at room temperature. Cells were stained with anti-HuC/D antibody (Product # A-21271) at a dilution of 1:250, and anti-MAP2 (Product # PA5-17646) at a dilution of 1:250, in 1% BSA staining buffer, overnight at 4C, and then incubated with Alexa Fluor 488 conjugated donkey anti-mouse (Product # A-21202) and Alexa Fluor 594 donkey anti-rabbit (Product # A-21207) antibodies at a dilution of 1:1000 for 30 min. at room temp. Wash 3 times with DPBS. Stain with DAPI for nucleus. Images were taken on a Thermo Fisher Scientific EVOS M5000 Cell Imaging System at 10x magnification.

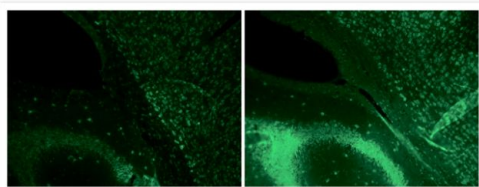


HuC/HuD Antibody (A-21271) in IF

Immunofluorescent analysis of HuC/HuD in the differentiated neurons from H9 ESC-derived NSCs. 2 weeks after differentiation, cells were fixed, permeabilized and stained with a MAP2 rabbit polyclonal antibody (Product # PA5-17646) at 1:100 dilution (green) and a HuC/HuD mouse monoclonal antibody (Product # A-21271), at a concentration of 5 µg/mL (red) in blocking buffer for at least 1 hour at room temperature, and then incubated with goat anti-rabbit IgG secondary antibody, Alexa Fluor Plus 488 conjugate (Product # A32731, green) and a donkey anti-mouse IgG secondary antibody, Alexa Fluor 594 conjugate (Product # A-21203, red) at a dilution of 1:1000 for 1 hour at room temperature. Nuclei (blue) were stained with Hoechst 33342 dye (Product # 62249).

HuC/HuD Antibody (A-21271) in IF

Reduced background staining afforded by Image-iT® FX signal enhancer. Mouse brain cryosections were permeabilized and antigen retrieval was carried out. The sections were then treated for 30 minutes with Image-iT® FX signal enhancer (Product # I36933, left) or left untreated (right). Sections were labeled with the neural cell body selective antibody anti-Hu C/D (Product # A-21271) and visualized using TSA Kit #2 (Product # T-20912) with the HRP conjugate of goat anti-mouse IgG and Alexa Fluor® 488 tyramide. Sections were mounted using the reagents in the ProLong® Antifade Kit (Product # P-7481).



[View more figures on thermofisher.com](http://thermofisher.com)

Immunofluorescence (54)

Frontiers in molecular neuroscience

Silencing Alpha Synuclein in Mature Nigral Neurons Results in Rapid Neuroinflammation and Subsequent Toxicity.

"Published figure using HuC/HuD monoclonal antibody (Product # A-21271) in Immunofluorescence"

Authors: Benskey MJ, Sellnow RC, Sandoval IM, Sortwell CE, Lipton JW, Manfredsson FP

Species
Not Applicable

Dilution
Not Cited

Year
2018

Neurogastroenterology and motility : the official journal of the European Gastrointestinal Motility Society

Toxoplasma gondii promotes changes in VIPergic submucosal neurons, mucosal intraepithelial lymphocytes, and goblet cells during acute infection in the ileum of rats.

"Published figure using HuC/HuD monoclonal antibody (Product # A-21271) in Immunofluorescence"

Authors: Schneider LCL, do Nascimento JCP, Trevizan AR, Góis MB, Borges SC, Beraldi EJ, Garcia JL, Sant'Ana DMG, Buttow NC

Species
Not Applicable

Dilution
Not Cited

Year
2018

[View more IF references on thermofisher.com](#)

Immunohistochemistry (169)

Frontiers in cellular neuroscience

Arundic Acid Prevents Developmental Upregulation of S100B Expression and Inhibits Enteric Glial Development.

"A21271 was used in immunohistochemistry to evaluate the influences of S100B synthesis in enteric nervous system development"

Authors: Hao MM, Capoccia E, Cirillo C, Boesmans W, Vanden Berghe P

Species
Mouse

Dilution
1:500

Year
2018

Neurogenesis (Austin, Tex.)

The effects of aging on Amyloid-42-induced neurodegeneration and regeneration in adult zebrafish brain.

Authors: Bhattarai P, Thomas AK, Zhang Y, Kizil C

Species
Zebrafish

Dilution
Not Cited

Year
2018

[View more IHC references on thermofisher.com](#)

More applications with references on thermofisher.com

IHC (F) (33)

WB (9)

IHC (P) (23)

ICC (42)

MISC (47)

IHC (Free) (4)

ELISA (1)

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