

Alexa Fluor® 647 anti-HNRNPA1 Antibody

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| Catalog# / Size | 862511 / 25 µg 862512 / 100 µg |
| Clone | 4B10/HNRNPA1 |
| Regulatory Status | RUO |
| Other Names | Heterogeneous nuclear ribonucleoprotein A1, hnRNP A1, Helix-destabilizing protein, Single-strand RNA-binding protein, hnRNP core protein A1 |
| Isotype | Mouse IgG2a, κ |
| Description | Heterogeneous nuclear ribonucleoprotein A1 (hnRNP A1) is a multi-purpose RNA binding protein involved in RNA metabolism and DNA genomic stability in normal and pathological conditions. hnRNP A1 is ubiquitously expressed and usually associates with nascent RNA polymerase II transcripts. hnRNP A1 is abundantly expressed in neuronal cells and reproductive tissue. Loss of hnRNP A1 has been observed in several neurodegenerative diseases, including Alzheimer's disease, multiple sclerosis, amyotrophic lateral sclerosis. Structurally, hnRNPA1 has two RNA recognition motifs, which are post-translationally modified to alter its nuclear pore shuttling properties and RNA interaction. |

Product Details

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| Verified Reactivity | Human, Mouse, Rat |
| Antibody Type | Monoclonal |
| Host Species | Mouse |
| Immunogen | Partially purified HeLa HNRNPA1 protein |
| Formulation | Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide. |
| Preparation | The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 647 under optimal conditions. |
| Concentration | 0.5 mg/ml |
| Storage & Handling | The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze. |
| Application | IHC-P - Quality tested |
| Recommended Usage | Each lot of this antibody is quality control tested by formalin-fixed paraffin-embedded immunohistochemical staining. For immunohistochemistry, a concentration range of 0.1 - 2.5 µg/ml is suggested. It is recommended that the reagent be titrated for optimal performance for each application. * Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633 nm / 635 nm. Alexa Fluor® and Pacific Blue™ are trademarks of Life Technologies Corporation. View full statement regarding label licenses |
| Excitation Laser | Red Laser (633 nm) |
| RRID | AB_2814601 (BioLegend Cat. No. 862511) AB_2814602 (BioLegend Cat. No. 862512) |

Antigen Details

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| Structure | hnRNPA1 has two isoforms. Human HNRNPA1 isoform A1-A is a 320 amino acid protein with a molecular mass of 34 kD, and isoform A1-B is a 372 amino acid protein with a molecular mass of |
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38 kD.

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| Distribution | Tissue Distribution: Ubiquitous expression Cellular Source: Nucleus and cytoplasm |
| Function | RNA metabolism, genomic stability |
| Interaction | Nascent RNA polymerase II transcripts |
| Cell Type | Neurons |
| Biology Area | Neurodegeneration, Neuroscience, Protein Synthesis |

Antigen References

1. Bekenstein U, *et al.* 2013. *Mol Cell Neurosci.* 56:436-46.
2. Jean-Philippe J, *et al.* 2014. *Biochim Biophys Acta.* 1839(4): 251–258.

Gene ID

[3178](#)
[15382](#)
[29578](#)

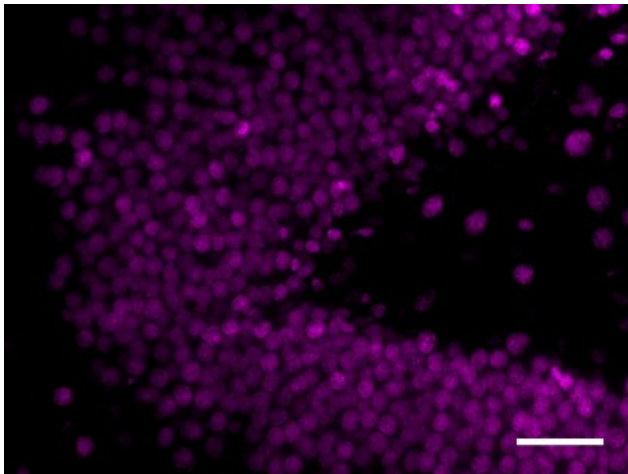
Related Protocols

[Immunohistochemistry Protocol for Paraffin-Embedded Sections](#)

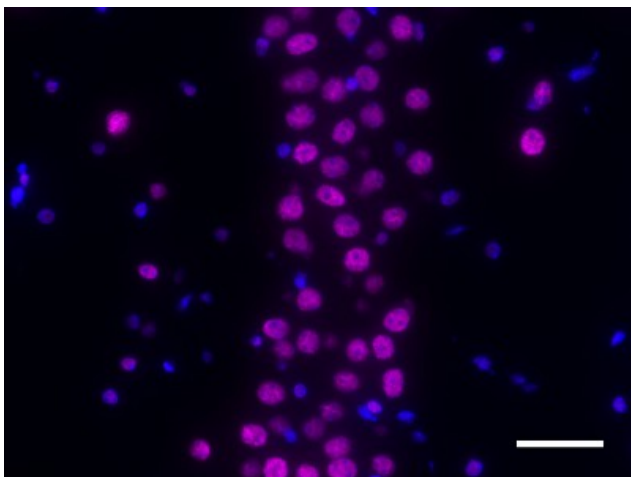
Other Formats

Purified anti-HNRNPA1, HRP anti-HNRNPA1, Biotin anti-HNRNPA1, Alexa Fluor® 488 anti-HNRNPA1, Alexa Fluor® 594 anti-HNRNPA1, Alexa Fluor® 647 anti-HNRNPA1

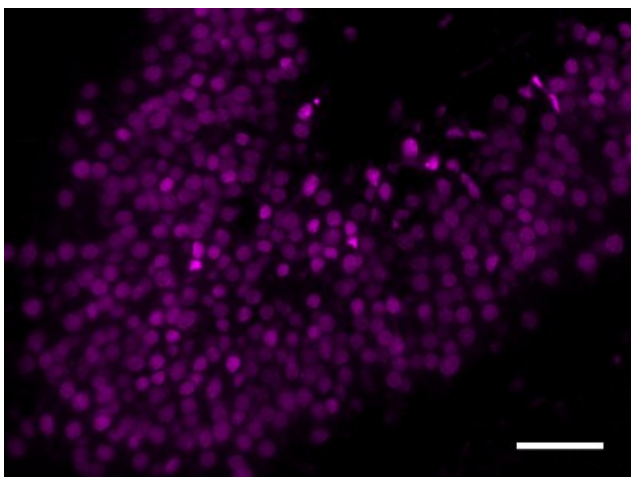
Product Data



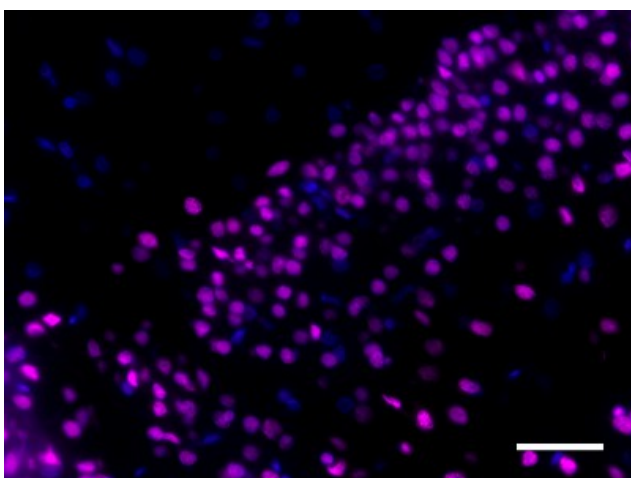
IHC staining of Alexa Fluor® 647 anti-HNRNPA1 antibody (clone 4B10/HNRNPA1) on formalin-fixed paraffin-embedded mouse brain tissue. Following antigen retrieval using Sodium Citrate H.I.E.R., the tissue was incubated with 0.1 µg/ml of the primary antibody overnight at 4°C. Nuclei were counterstained with DAPI. The image was captured with a 40X objective. Scale bar: 50 µm



IHC staining of Alexa Fluor® 647 anti-HNRNPA1 antibody (clone 4B10/HNRNPA1) on formalin-fixed paraffin-embedded mouse brain tissue. Following antigen retrieval using Sodium Citrate H.I.E.R., the tissue was incubated with 0.1 µg/ml of the primary antibody overnight at 4°C. Nuclei were counterstained with DAPI. The image was captured with a 40X objective. Scale bar: 50 µm



IHC staining of Alexa Fluor® 647 anti-HNRNPA1 antibody (clone 4B10/HNRNPA1) on formalin-fixed paraffin-embedded rat brain tissue. Following antigen retrieval using Sodium Citrate H.I.E.R., the tissue was incubated with 0.1 µg/ml of the primary antibody overnight at 4°C. Nuclei were counterstained with DAPI. The image was captured with a 40X objective. Scale bar: 50 µm



IHC staining of Alexa Fluor® 647 anti-HNRNPA1 antibody (clone 4B10/HNRNPA1) on formalin-fixed paraffin-embedded rat brain tissue. Following antigen retrieval using Sodium Citrate H.I.E.R., the tissue was incubated with 0.1 µg/ml of the primary antibody overnight at 4°C. Nuclei were counterstained with DAPI. The image was captured with a 40X objective. Scale bar: 50 µm

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