

Alexa Fluor[®] 594 anti-HNRNPA1 Antibody

Catalog# / Size	862509 / 25 µg 862510 / 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, hnRNP A1 has two RNA recognition motifs, which are post-translationally modified to alter its nuclear pore shuttling properties and RNA interaction.

Product Details

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 [®] 594 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 [®] 594 has an excitation maximum of 590 nm, and a maximum emission of 617 nm. Alexa Fluor [®] and Pacific Blue™ are trademarks of Life Technologies Corporation. View full statement regarding label licenses
RRID	AB_2814599 (BioLegend Cat. No. 862509) AB_2814600 (BioLegend Cat. No. 862510)

Antigen Details

Structure	hnRNP A1 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 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	<ol style="list-style-type: none"> 1. Bekenstein U, <i>et al.</i> 2013. <i>Mol Cell Neurosci.</i> 56:436-46. 2. Jean-Philippe J, <i>et al.</i> 2014. <i>Biochim Biophys Acta.</i> 1839(4): 251–258.
Gene ID	3178 15382 29578

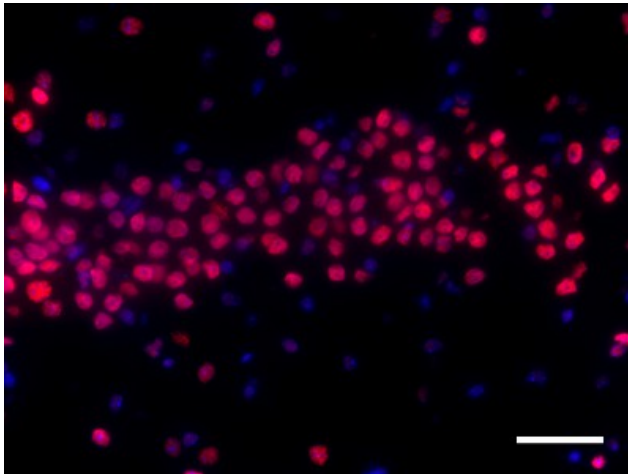
Related Protocols

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

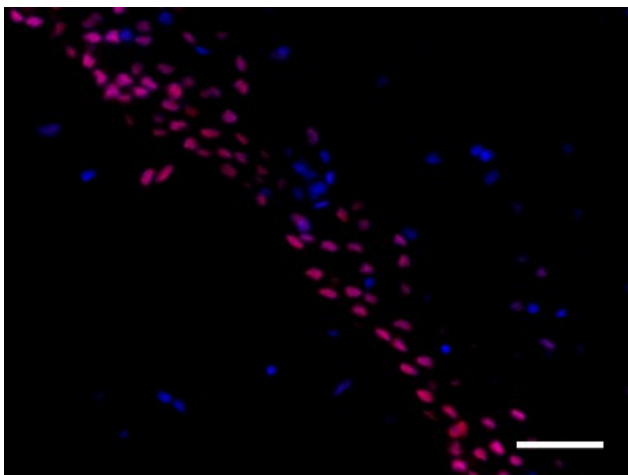
Other Formats

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® 594 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® 594 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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