

Purified anti-RBFOX1 (A2BP1) Antibody

Catalog# / Size	862701 / 25 µg 862702 / 100 µg
Clone	A18069B
Regulatory Status	RUO
Other Names	RBFOX1, A2BP1, RNA Binding fox-1 Homolog 1, Hexaribonucleotide Binding Protein 1, FOX1
Isotype	Mouse IgG2b, κ
Description	Rbfox1 is a member of the RNA binding protein family that shares a conservative RNA recognition motif. Rbfox1 has been shown to modulate alternative splicing by binding the consensus RNA sequence motif (U)GCAUG within introns. The interaction between cytoplasmic Rbfox1 and mRNA affects mRNA stability and translation. The binding of Rbfox1 protein to the C-terminus of ataxin-2 may be a contributing factor to the development of spinocerebellar ataxia type 2 .

Product Details

Verified Reactivity	Human, Mouse, Rat
Antibody Type	Monoclonal
Host Species	Mouse
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography.
Concentration	0.5 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C.
Application	WB - Quality tested IHC-P - Verified
Recommended Usage	Each lot of this antibody is quality control tested by Western blotting . For Western blotting, the suggested use of this reagent is 0.1 - 0.5 µg per ml. For immunohistochemistry, a concentration range of 5 - 10 µg/ml is suggested. It is recommended that the reagent be titrated for optimal performance for each application.
RRID	AB_2801247 (BioLegend Cat. No. 862701) AB_2801248 (BioLegend Cat. No. 862702)

Antigen Details

Structure	RBFOX1 is a 416 amino acid protein with an apparent molecular mass of ~ 45 kD.
Distribution	Tissue Distribution: brain and heart. Cellular Distribution: nucleus, golgi apparatus, and cytosol.
Function	RBFOX1 is an RNA binding protein that modulates mRNA alternative splicing.
Interaction	RNA, ataxin-2
Cell Type	Neurons, Oligodendrocytes
Biology Area	Neurodegeneration, Protein Synthesis, Transcription Factors
Antigen References	1. Wang ET, <i>et al.</i> 2016. <i>J. Neurosci.</i> 36(45):11418 2. Duan W, <i>et al.</i> 2016. <i>Mol Neurobiol.</i> 53(3):1637

Gene ID [54715](#)
[268859](#)
[302920](#)

Related Protocols

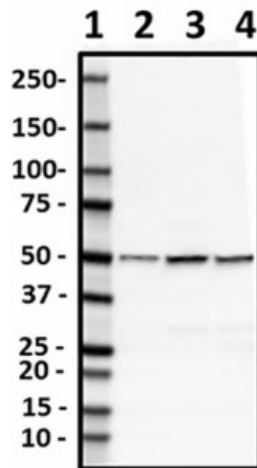
[Western Blotting Protocol](#)

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

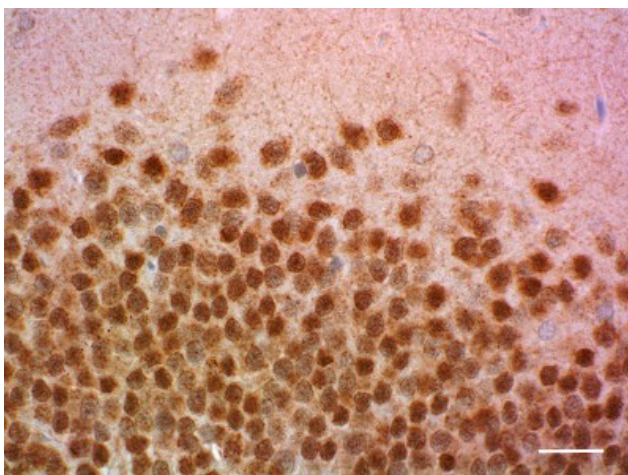
Other Formats

Purified anti-RBFOX1 (A2BP1), HRP anti-RBFOX1 (A2BP1), Alexa Fluor® 594 anti-RBFOX1 (A2BP1), Alexa Fluor® 647 anti-RBFOX1 (A2BP1), Alexa Fluor® 488 anti-RBFOX1 (A2BP1)

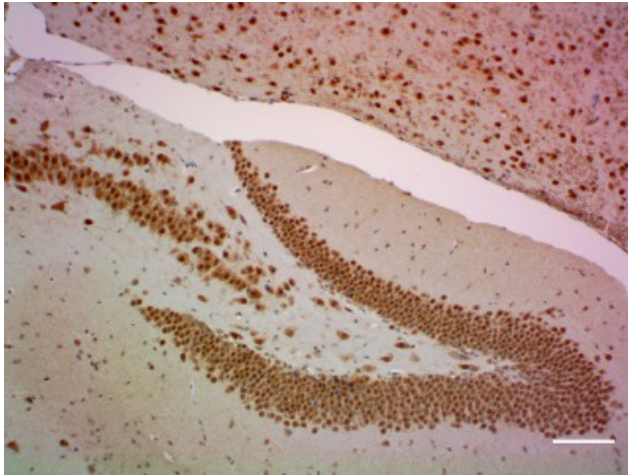
Product Data



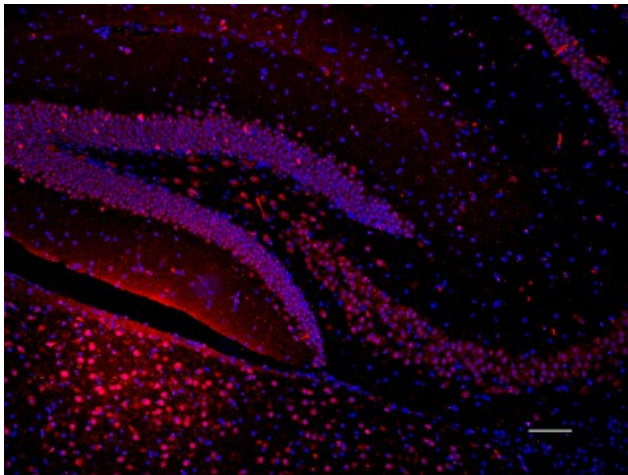
Western blot of purified anti-RBFOX1 (A2BP1) antibody (clone A18069B). Lane 1: Molecular weight marker; Lane 2: 20µg of human brain lysate; Lane 3: 20µg of mouse brain lysate; Lane 4: 20µg of rat brain lysate. The blot was incubated with 0.5 µg/mL of the primary antibody overnight at 4°C, followed by incubation with HRP-labeled goat anti-mouse IgG (Cat. No. 405306). Enhanced chemiluminescence was used as the detection system



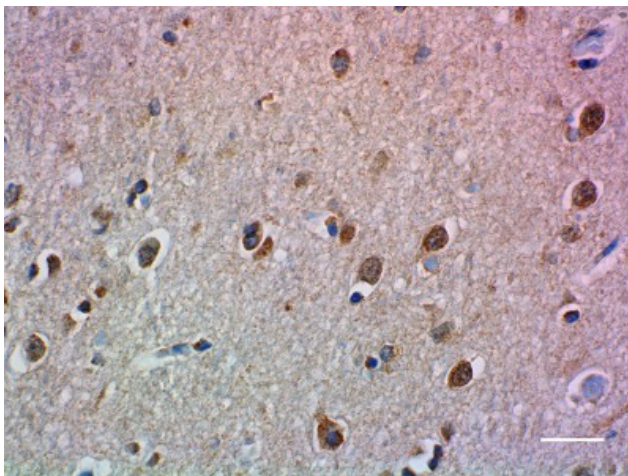
IHC staining of purified anti-RBFOX1 (A2BP1) antibody (clone A18069B) on formalin-fixed paraffin-embedded rat brain tissue. Following antigen retrieval using Sodium Citrate H.I.E.R., the tissue was incubated with 5 µg/ml of the primary antibody overnight at 4°C. BioLegend's Ultra Streptavidin (USA) HRP Detection Kit (Multi-Species, DAB, Cat. No. 929901) was used for detection followed by hematoxylin counterstaining, according to the protocol provided. The image was captured with a 40X objective. Scale Bar: 50 µm



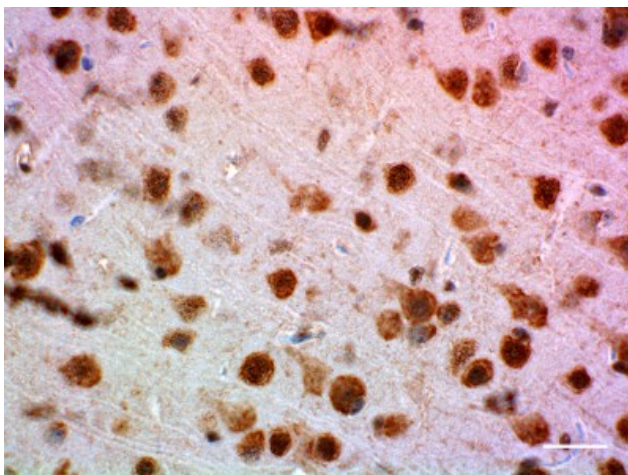
IHC staining of purified anti-RBFOX1 (A2BP1) antibody (clone A18069B) on formalin-fixed paraffin-embedded mouse brain tissue. Following antigen retrieval using Sodium Citrate H.I.E.R., the tissue was incubated with 5 $\mu\text{g}/\text{ml}$ of the primary antibody overnight at 4°C. BioLegend's Ultra Streptavidin (USA) HRP Detection Kit (Multi-Species, DAB, Cat. No. 929901) was used for detection followed by hematoxylin counterstaining, according to the protocol provided. The image was captured with a 10X objective. Scale Bar: 100 μm



IHC staining of purified anti-RBFOX1 (A2BP1) antibody (clone A18069B) on formalin-fixed paraffin-embedded mouse brain tissue. Following antigen retrieval using Sodium Citrate H.I.E.R., the tissue was incubated with 5 $\mu\text{g}/\text{ml}$ of the primary antibody overnight at 4°C, followed by incubation with Alexa Fluor® 594 goat anti-mouse IgG (Cat. No. 405326) for one hour at room temperature. The slide was mounted with Fluoromount-G with DAPI. The image was captured with a 10X objective. Scale Bar: 100 μm



IHC staining of purified anti-RBFOX1 (A2BP1) antibody (clone A18069B) on formalin-fixed paraffin-embedded human brain tissue. Following antigen retrieval using Sodium Citrate H.I.E.R., the tissue was incubated with 5 $\mu\text{g}/\text{ml}$ of the primary antibody overnight at 4°C. BioLegend's Ultra Streptavidin (USA) HRP Detection Kit (Multi-Species, DAB, Cat. No. 929901) was used for detection followed by hematoxylin counterstaining, according to the protocol provided. The image was captured with a 40X objective. Scale Bar: 50 μm



IHC staining of purified anti-RBFOX1 (A2BP1) antibody (clone A18069B) on formalin-fixed paraffin-embedded mouse brain tissue. Following antigen retrieval using Sodium Citrate H.I.E.R., the tissue was incubated with 5 $\mu\text{g}/\text{ml}$ of the primary antibody overnight at 4°C. BioLegend's Ultra Streptavidin (USA) HRP Detection Kit (Multi-Species, DAB, Cat. No. 929901) was used for detection followed by hematoxylin counterstaining, according to the protocol provided. The image was captured with a 40X objective. Scale Bar: 50 μm

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BioLegend Inc., 8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587