DATASHEET

BRN3A Rabbit Polyclonal Antibody

CAT. NO. ARA5849

KEY FEATURES

Target	BRN3A	**Source/Host**	Rabbit
Reactivity	Human, Mouse, Rat	**Clonality**	Polyclonal
Applications	WB,IHC,IF/ICC,ELISA	**Conjugation**	Unconjugated
Isotype	IgG	**Storage**	at -20°C

BACKGROUND

BRN3A, also known as POU4F1 (POU class 4 homeobox 1), is a member of the class IV POU-domain family of neural transcription factors. It is expressed in a subset of retinal ganglion cells and plays a core regulatory role in the development and survival of sensory neurons of the nervous system. By binding specific DNA sequences, BRN3A activates downstream target genes and is essential for the generation, differentiation and maintenance of sensory ganglion neurons, including those of the trigeminal, vestibular and auditory systems. BRN3A has also been implicated in regulating cell proliferation and apoptosis in tumors such as breast cancer.

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:2000
IHC	1:50 - 1:500
IF/ICC	1:50 - 1:500
ELISA	Assay-dependent

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

OVERVIEW

Description	BRN3A Rabbit Polyclonal Antibody for WB, IHC, IF, ELISA
Specificity	Reacts with BRN3A (POU4F1) in WB, IHC, IF and ELISA applications. Shows reactivity with human, mouse and rat samples.
Antibody Type	Primary antibody
Immunogen	Recombinant human BRN3A protein (amino acids 87-265) expressed in E. coli with a GST tag.
Molecular Weight	Predicted: 43 kDa; Observed: 35 kDa
Purification	The antibody was purified by antigen affinity chromatography.
Isotype	IgG
Form/Buffer	Liquid in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Alternative Names	Brn-3A, Brain-3A, RDC-1, Oct-T1
Gene Symbol	POU4F1
Entrez Gene	5457
SwissProt	Q01851

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

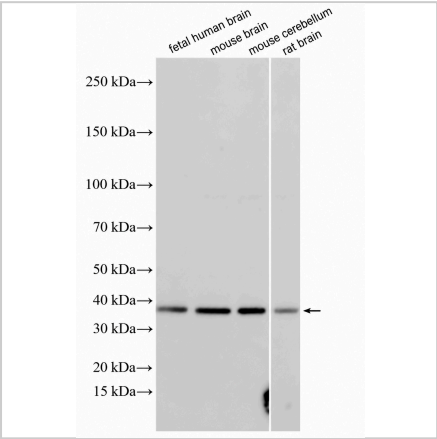
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

DATASHEET

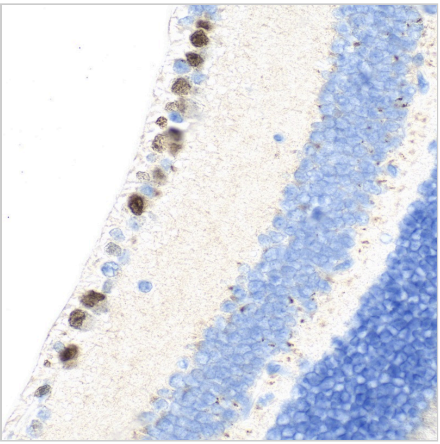
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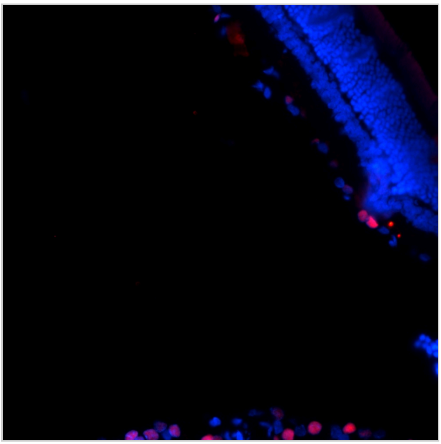
DATA



Various lysates were subjected to SDS PAGE followed by western blot with BRN3A Rabbit Polyclonal Antibody at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse eye tissue slide using BRN3A Rabbit Polyclonal Antibody at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded rat eye tissue using BRN3A Rabbit Polyclonal Antibody at dilution of 1:200 and AREX Fluor 594-conjugated Goat Anti-Rabbit IgG (H+L). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.

More information: www.arexbio.com