

Product datasheet

Alexa Fluor® 647 Anti-FOXP1 antibody [EPR18987] ab270103

Recombinant RabMAb

1 Image

Overview

Product name	Alexa Fluor® 647 Anti-FOXP1 antibody [EPR18987]
Description	Alexa Fluor® 647 Rabbit monoclonal [EPR18987] to FOXP1
Host species	Rabbit
Conjugation	Alexa Fluor® 647. Ex: 652nm, Em: 668nm
Tested applications	Suitable for: ICC
Species reactivity	Reacts with: Rat
Immunogen	Synthetic peptide within Human FOXP1 aa 400 to the C-terminus. The exact sequence is proprietary. Database link: P55316
Positive control	ICC: C6 cells.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.</p> <p>Alexa Fluor® is a registered trademark of Molecular Probes, Inc, a Thermo Fisher Scientific Company. The Alexa Fluor® dye included in this product is provided under an intellectual property license from Life Technologies Corporation. As this product contains the Alexa Fluor® dye, the purchase of this product conveys to the buyer the non-transferable right to use the purchased product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). As this product contains the Alexa Fluor® dye the sale of this product is expressly conditioned on the buyer not using the product or its components, or any materials made using the product or its components, in any activity to generate revenue, which may include, but is not limited to use of the product or its components: (i) in manufacturing; (ii) to provide a service, information, or data in return for payment (iii) for therapeutic, diagnostic or prophylactic purposes; or (iv) for resale, regardless of whether they are sold for use in research. For information on purchasing a license to this product for purposes other than research, contact</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle. Store In the Dark.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 68.98% PBS, 30% Glycerol (glycerin, glycerine), 1% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR18987
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab270103** in the following tested applications.

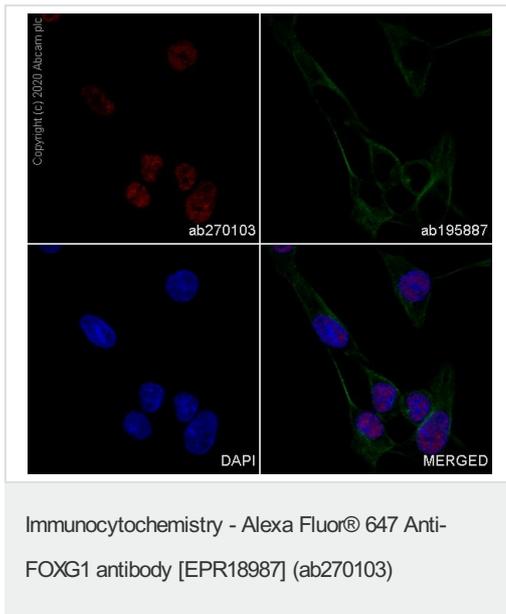
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC		1/50. This product gave a positive signal in C6 fixed with 4% formaldehyde (10 min).

Target

Function	Transcription repression factor which plays an important role in the establishment of the regional subdivision of the developing brain and in the development of the telencephalon.
Tissue specificity	Expression is restricted to the neurons of the developing telencephalon.
Involvement in disease	Defects in FOXP1 are the cause of congenital variant of Rett syndrome (RTTCV) [MIM:613454]. RTTCV is a severe neurodevelopmental disorder with features of classic Rett syndrome but earlier onset in the first months of life. Clinical features include progressive microcephaly, hypotonia, irresponsiveness and irritability in the neonatal period, mental retardation, psychomotor regression and stereotypical movements.
Sequence similarities	Contains 1 fork-head DNA-binding domain.
Cellular localization	Nucleus.

Images



Immunofluorescence analysis of C6 (Rat glial tumor cell line) cells labeling FOXG1 with ab270103. The cells were fixed with 4% formaldehyde (10 min), permeabilized with 0.1% Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated overnight at +4°C with ab270103 at 1/50 dilution (Red) and ab195887, mouse monoclonal to alpha Tubulin (Alexa Fluor® 488), at 1/250 dilution (Green). Nuclear DNA was labelled with DAPI (Blue). Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

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