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FOXG1 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9793C

Product Information

Application	WB, IF, FC, E
Primary Accession	P55316
Other Accession	P32031, Q9YHC5, Q00939, Q60987, Q90964
Reactivity	Human, Mouse, Rat
Predicted	Rat, Chicken, Drosophila, Xenopus, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB24681
Calculated MW	52352
Antigen Region	225-252

Additional Information

Gene ID	2290
Other Names	Forkhead box protein G1, Brain factor 1, BF-1, BF1, Brain factor 2, BF-2, BF2, hBF-2, Forkhead box protein G1A, Forkhead box protein G1B, Forkhead box protein G1C, Forkhead-related protein FKHL1, HFK1, Forkhead-related protein FKHL2, HFK2, Forkhead-related protein FKHL3, HFK3, FOXG1
Target/Specificity	This FOXG1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 225-252 amino acids from the Central region of human FOXG1.
Dilution	WB~~1:1000 IF~~1:10~50 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	FOXG1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	FOXG1

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.
Cellular Location	Nucleus {ECO:0000255|PROSITE-ProRule:PRU00089, ECO:0000269|PubMed:21280142}
Tissue Location	Expression is restricted to the neurons of the developing telencephalon.

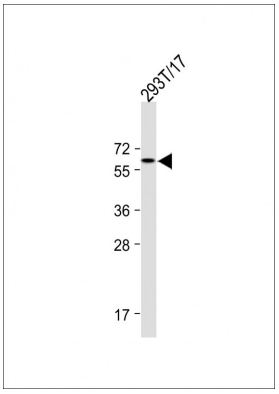
Background

This gene belongs to the forkhead family of transcription factors which is characterized by a distinct forkhead domain. The specific function of this gene has not yet been determined; however, it may play a role in the development of the brain and telencephalon.

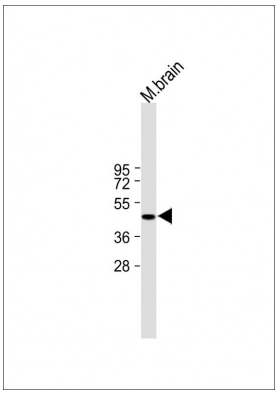
References

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Philippe, C., et al. J. Med. Genet. 47(1):59-65(2010)
Ariani, F., et al. Am. J. Hum. Genet. 83(1):89-93(2008)
Adesina, A.M., et al. J. Neurooncol. 85(2):111-122(2007)
Bredenkamp, N., et al. Dev. Genes Evol. 217(3):227-233(2007)

Images

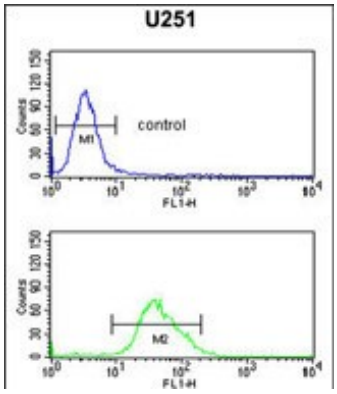


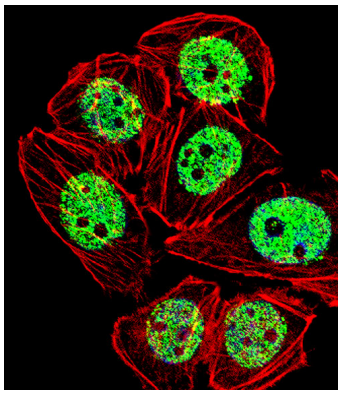
All lanes : Anti-FOXG1 Antibody (Center) at 1:1000 dilution Lane 1: 293T/17 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size : 59kDa Blocking/Dilution buffer: 5% NFDM/TBST.



All lanes : Anti-FOXG1 Antibody (Center) at 1:1000 dilution Lane 1: mouse brain tissue lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size : 49kDa Blocking/Dilution buffer: 5% NFDM/TBST.

FOXG1 Antibody (Center) (Cat. #AP9793c) flow cytometric analysis of U251 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.





Fluorescent confocal image of A549 cell stained with FOXG1 Antibody (Center)(Cat#AP9793c).A549 cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with FOXG1 primary antibody (1:25, 1 h at 37℃). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37℃).Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37℃). Nuclei were counterstained with DAPI (blue) (10 μg/ml, 10 min). FOXG1 immunoreactivity is localized to Nucleus significantly.

Citations

- Functional Consequences of CHRNA7 Copy-Number Alterations in Induced Pluripotent Stem Cells and Neural Progenitor Cells.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.