

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
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
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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.

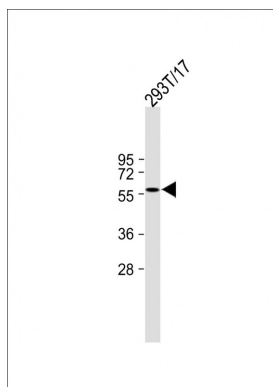
Background

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.

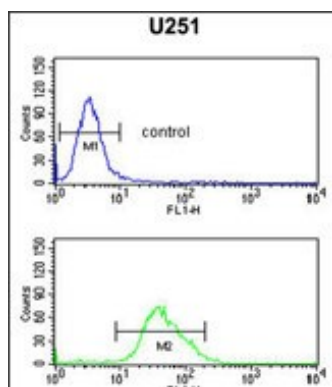
References

Mencarelli, M.A., et al. J. Med. Genet. 47(1):49-53(2010)
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

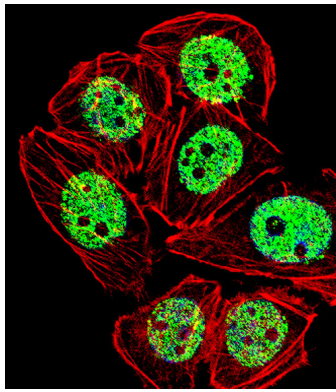


All lanes : Anti-FOXG1 Antibody (Center) at 1:1000 dilution
Lane 1: 293T/17 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution.
Observed band size : 68kDa Blocking/Dilution buffer: 5% NFDM/TBST.



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°C). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody



(green) was used (1:400, 50 min at 37°C). Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7 units/ml, 1 h at 37°C). 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'.