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FOXG1 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9793C

Specification

FOXG1 Antibody (Center) - Product Information

Application	**WB, IF, FC,E**
Primary Accession	P55316
Other Accession	P32031, Q9YHC5, Q00939, Q60987, Q90964
Reactivity	**Human, Mouse**
Predicted	**Chicken, Rat, Xenopus, Drosophila**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**225-252**

FOXG1 Antibody (Center) - 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

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. 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.

FOXG1 Antibody (Center) - 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}

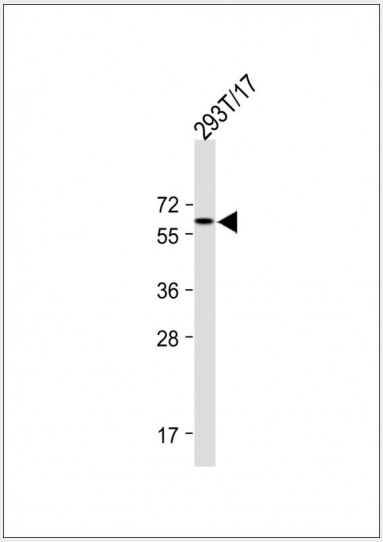
Tissue Location
Expression is restricted to the neurons of the developing telencephalon.

FOXG1 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

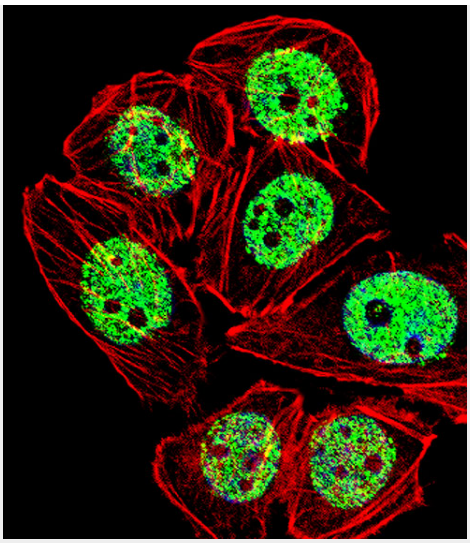
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

FOXG1 Antibody (Center) - Images

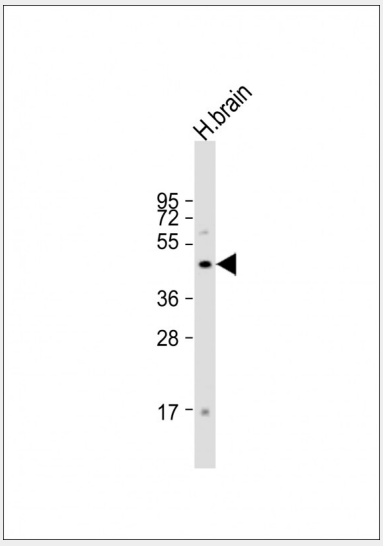


All lanes : Anti-FOXG1 Antibody (Center) at 1:1000 dilution Lane 1: 293T/17 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size : 59kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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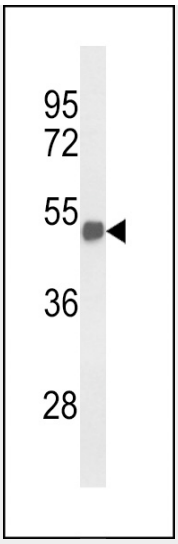


Fluorescent confocal image of A549 cell stained with FOXG1 Antibody (Center)(Cat#AP9793c).A549 cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with FOXG1 primary antibody (1:25, 1 h at 37℃). For secondary antibody, Alexa Fluor® 488 conjugated donkey 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.

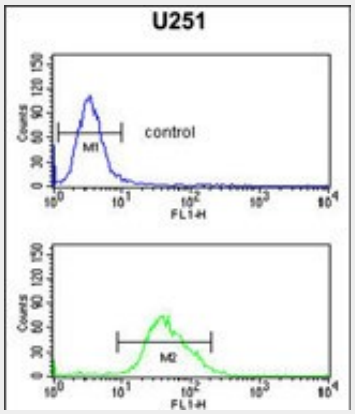


Anti-FOXG1 Antibody (Center) at 1:1000 dilution + human brain lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 52 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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Western blot analysis of FOXG1 Antibody (Center) (Cat. #AP9793c) in mouse brain tissue lysates (35ug/lane). FOXG1 (arrow) was detected using the purified Pab.



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.

FOXG1 Antibody (Center) - 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.

FOXG1 Antibody (Center) - 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)

FOXG1 Antibody (Center) - Citations

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