

**FOXG1 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP9793C**

**Specification**

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**FOXG1 Antibody (Center) - Product Information**

Application	WB, IF, FC,E
Primary Accession	<a href="#">P55316</a>
Other Accession	<a href="#">P32031</a> , <a href="#">Q9YHC5</a> , <a href="#">Q00939</a> , <a href="#">Q60987</a> , <a href="#">Q90964</a>
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

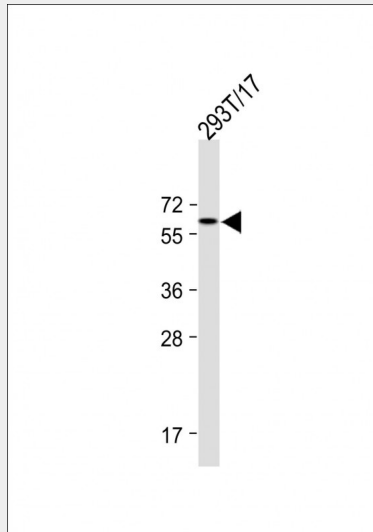
Expression is restricted to the neurons of the developing telencephalon.

## FOXG1 Antibody (Center) - Protocols

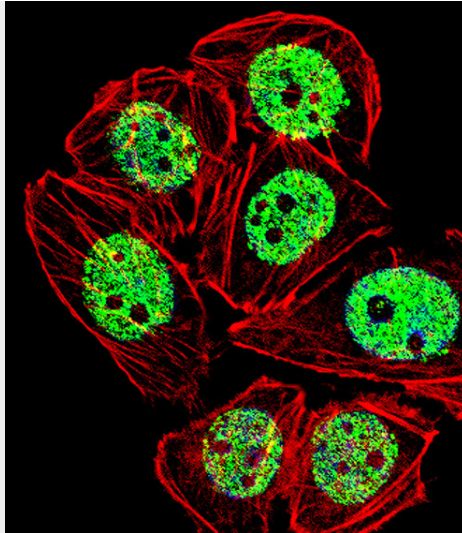
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

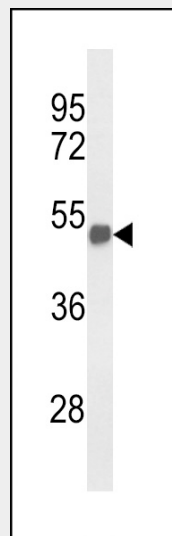
## FOXG1 Antibody (Center) - Images



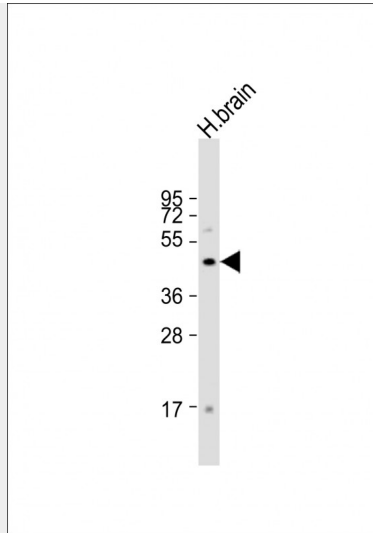
All lanes : Anti-FOXG1 Antibody (Center) at 1:1000 dilution Lane 1: 293T/17 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size : 59kDa Blocking/Dilution buffer: 5% NFDM/TBST.



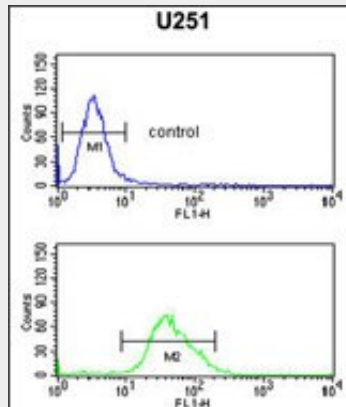
Fluorescent confocal image of A549 cell stained with FOXG1 Antibody (Center)(Cat#AP9793c).A549 cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with FOXG1 primary antibody (1:25, 1 h at 37°C). For secondary antibody, Alexa Fluor® 488 conjugated donkey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



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



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% NFD/MTBST.



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.](#)