

FOXG1 Rabbit mAb

Catalog NO.: A28716 **Recombinant**

Basic Information

Observed MW

60 kDa

Calculated MW

52 kDa

Category

Monoclonal Antibodies

Applications

WB, IP, IF/ICC, IF-F, IF-P, IHC-P, ELISA

Cross-Reactivity

Human, Mouse, Rat

Conjugation

Unconjugated

Clone number

ARC3822

Background

This locus encodes a member of the fork-head transcription factor family. The encoded protein, which functions as a transcriptional repressor, is highly expressed in neural tissues during brain development. Mutations at this locus have been associated with Rett syndrome and a diverse spectrum of neurodevelopmental disorders defined as part of the FOXG1 syndrome. This gene is dysregulated in many types of cancer and is the target of multiple microRNAs that regulate the proliferation of tumor cells.

Recommended Dilutions

Immunogen Information

WB 1:1000 - 1:2000

IP
0.5 µg - 4 µg antibody for 400 µg - 600 µg extracts
of whole cells

IF/ICC 1:200 - 1:600
IF-F 1:200 - 1:600

IF-P 1:200 - 1:400

IHC-P 1:1000 - 1:4000

ELISA

Recommended starting concentration is 1 µg/mL.
Please optimize the concentration based on your
specific assay requirements. For high-ratio
antibody dilutions (≥ 1:10000), a sequential
dilution method is strongly recommended to
ensure measurement accuracy.

Contact

		order@abclonal.com
		service@abclonal.com
		www.abclonal.com

Validation Data

Gene ID

2290

Swiss Prot

P55316

Immunogen

This information is considered to be commercially sensitive.

Synonyms

BF1; BF2; QIN; FKH2; HBF2; HFK1; HFK2; HFK3; KHL2; FHKL3; FKHL1; FKHL2; FKHL3; FKHL4; HBF-1; HBF-2; HBF-3; FO
XG1A; FOXG1B; FOXG1C; HBF-G2

Product Information

Source

Rabbit

Isotype

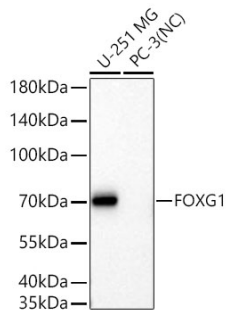
IgG

Purification

Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.
Buffer: PBS with 0.01% Sodium azide, 0.05% BSA, 40% glycerol, pH 7.3.



Western blot analysis of various lysates using FOXG1 Rabbit mAb (A28716) at 1:2000 dilution incubated overnight at 4°C.

Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

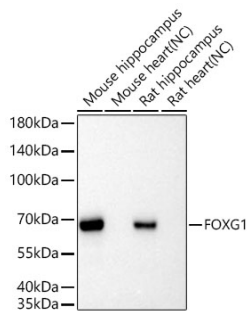
Lysates/proteins: 25 µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Negative control (NC): PC-3.

Exposure time: 45 s.



Western blot analysis of various lysates using FOXG1 Rabbit mAb (A28716) at 1:2000 dilution incubated overnight at 4°C.

Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

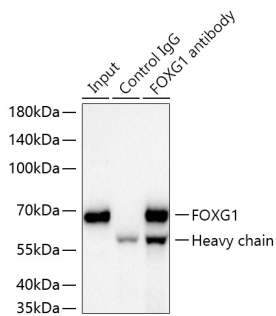
Lysates/proteins: 25 µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

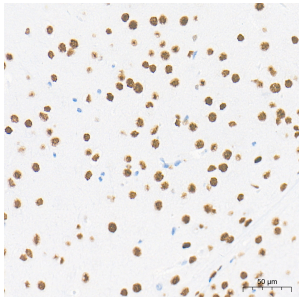
Negative control (NC): Mouse heart, Rat heart.

Exposure time: 45 s.

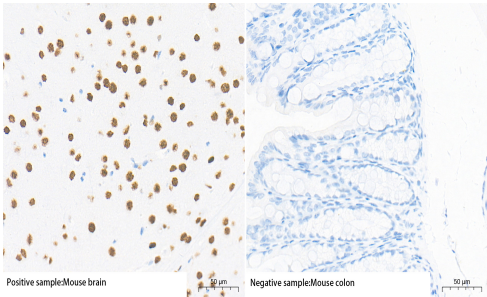


Immunoprecipitation of FOXG1 from 600 µg extracts of Mouse brain tissue was performed using 2 µg of FOXG1 Rabbit mAb (A28716). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using FOXG1 Rabbit mAb (A28716) at a dilution of 1:1000.

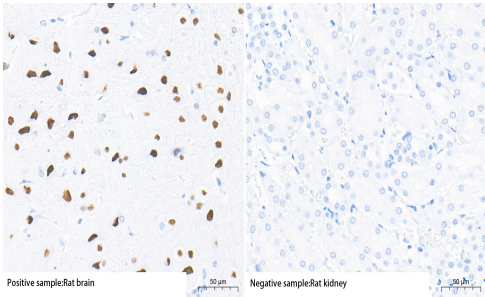
Validation Data



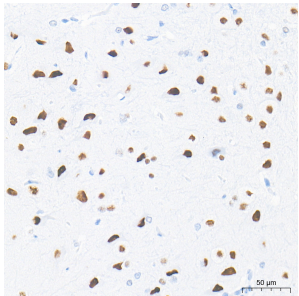
Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue using FOXG1 Rabbit mAb (A28716) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



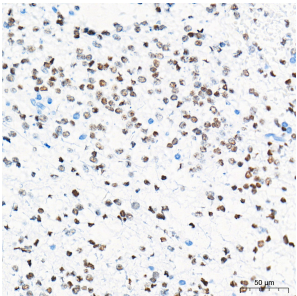
Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue (left, Positive control) and Mouse colon tissue (right, Negative control), using FOXG1 Rabbit mAb (A28716) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



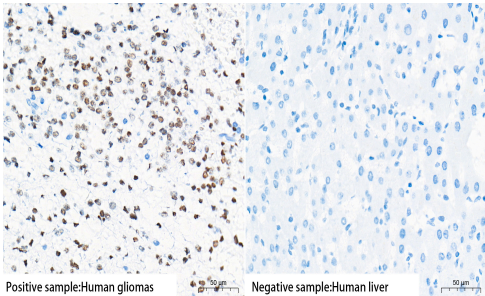
Immunohistochemistry analysis of paraffin-embedded Rat brain tissue (left, Positive control) and Rat kidney tissue (right, Negative control), using FOXG1 Rabbit mAb (A28716) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



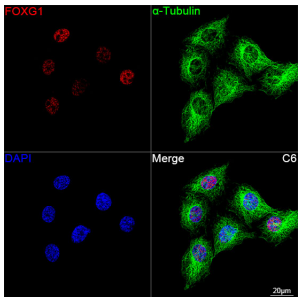
Immunohistochemistry analysis of paraffin-embedded Rat brain tissue using FOXG1 Rabbit mAb (A28716) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



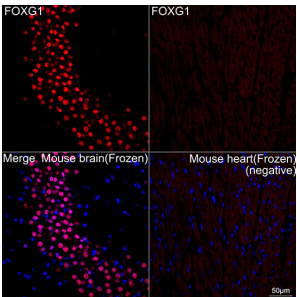
Immunohistochemistry analysis of paraffin-embedded Human gliomas tissue using FOXG1 Rabbit mAb (A28716) at a dilution of 1:1700 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.



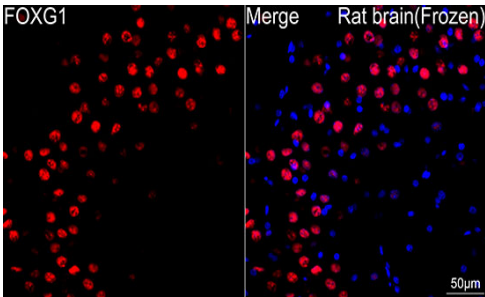
Immunohistochemistry analysis of paraffin-embedded Human gliomas tissue (left, Positive control) and Human liver tissue (right, Negative control), using FOXG1 Rabbit mAb (A28716) at a dilution of 1:1700 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.



Confocal imaging of C6 cells using FOXG1 Rabbit mAb (A28716, dilution 1:500) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells



Confocal imaging of frozen sections of Mouse brain tissue and Mouse heart tissue (negative) using FOXG1 Rabbit mAb (A28716, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat



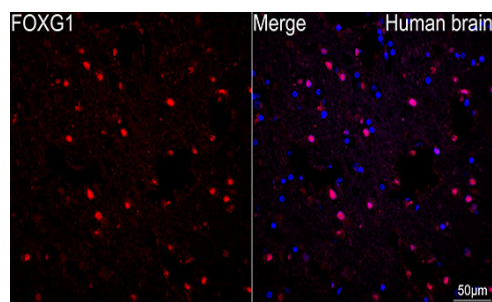
Confocal imaging of frozen sections of Rat brain tissue using FOXG1 Rabbit mAb (A28716, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red).

were counterstained with α -Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.

anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.

DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.

Validation Data



Confocal imaging of paraffin-embedded Human brain tissue using FOXG1 Rabbit mAb (A28716, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.

