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FOXG1 Rabbit mAb

Catalog No.: A28716 Recombinant

Basic Information

Observed MW
60 kDa

Calculated MW
52 kDa

Category
Primary antibody

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

Cross-Reactivity
Human, Mouse, Rat

CloneNo 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 disregulated in many types of cancer and is the target of multiple microRNAs that regulate the proliferation of tumor cells.

Recommended Dilutions

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.

Immunogen Information

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; FOXG1A; FOXG1B; FOXG1C; HBF-G2

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.01% Sodium azide,0.05% BSA,40% glycerol,pH7.3.

Contact

400-999-6126

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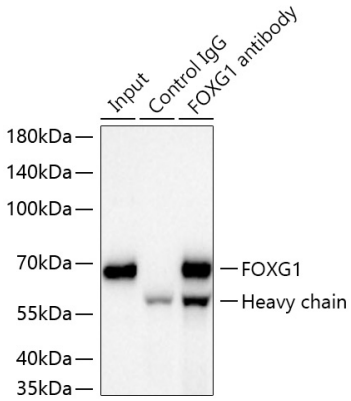
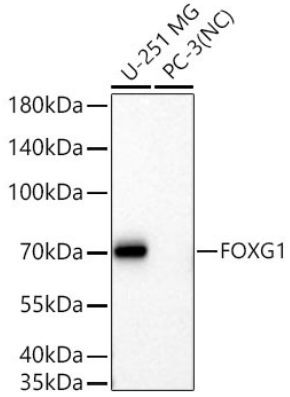
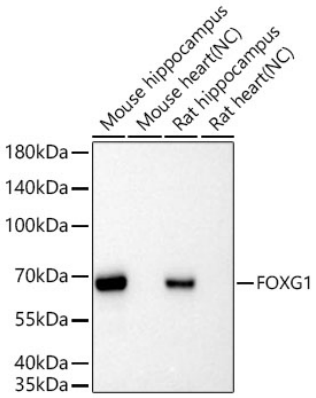
Validation Data



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.

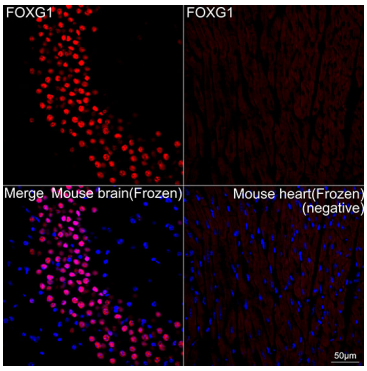


Western blot analysis of various lysates using FOXG1 Rabbit mAb (A28716) at 1:2000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Negative control (NC): PC-3.
Exposure time: 45 s.

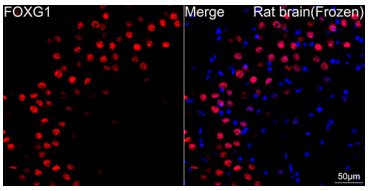


Western blot analysis of various lysates using FOXG1 Rabbit mAb (A28716) at 1:2000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Negative control (NC): Mouse heart, Rat heart.
Exposure time: 45 s.

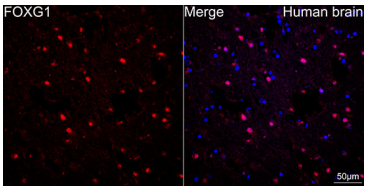
Validation Data



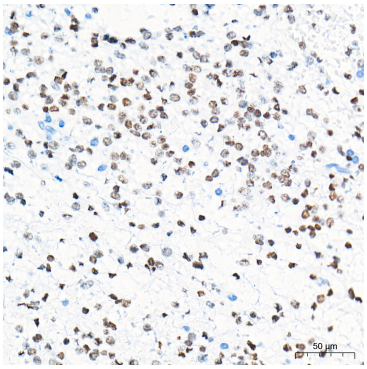
Confocal imaging of frozen sections of Mouse brain tissue and Mouse heart tissue (negative) using FOXG1 Rabbit mAb (A28716, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave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



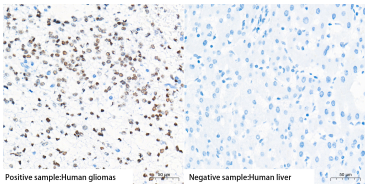
Confocal imaging of frozen sections of Rat brain tissue using FOXG1 Rabbit mAb (A28716, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with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



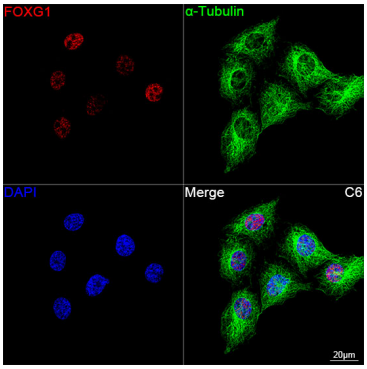
Confocal imaging of paraffin-embedded Human brain tissue using FOXG1 Rabbit mAb (A28716, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with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



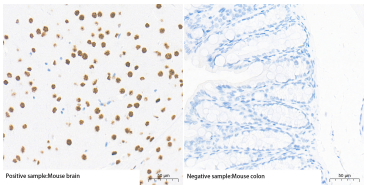
Immunohistochemistry analysis of paraffin-embedded Human gliomas tissue using FOXG1 Rabbit mAb (A28716) at a dilution of 1:1700 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.



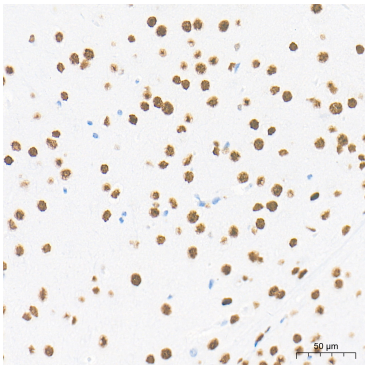
Immunohistochemistry analysis of paraffin-embedded Human gliomas tissue (left, Positive control) and Human liver tissue (right, Negative control), using FOXG1 Rabbit mAb (A28716) at a dilution of 1:1700 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to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



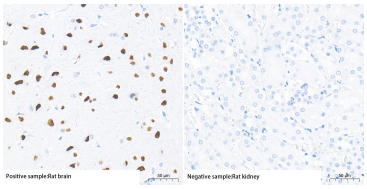
Confocal imaging of C6 cells using FOXG1 Rabbit mAb (A28716, dilution 1:500) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue (left, Positive control) and Mouse colon tissue (right,



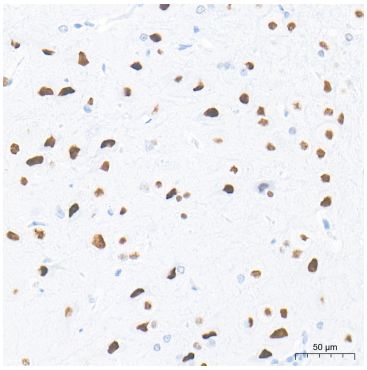
Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue using FOXG1 Rabbit mAb (A28716) at a dilution of 1:2000



Immunohistochemistry analysis of paraffin-embedded Rat brain tissue (left, Positive control) and Rat kidney tissue (right,

Validation Data

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.

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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.