

TCF-4 Rabbit mAb**Catalog No.: A30045****Recombinant****Basic Information****Observed MW**

62-82 kDa

Calculated MW

48-72 kDa

Category

Monoclonal Antibodies

Applications

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

Cross Reactivity

Human, Mouse, Rat

Clone No.

ARC3539

Background

This gene encodes transcription factor 4, a basic helix-loop-helix transcription factor. The encoded protein recognizes an Ephrussi-box ('E-box') binding site ('CANNTG') - a motif first identified in immunoglobulin enhancers. This gene is broadly expressed, and may play an important role in nervous system development. Defects in this gene are a cause of Pitt-Hopkins syndrome. In addition, an intronic CTG repeat normally numbering 10-37 repeat units can expand to >50 repeat units and cause Fuchs endothelial corneal dystrophy. Multiple alternatively spliced transcript variants that encode different proteins have been described.

Recommended Dilutions**WB** 1:2000 - 1:20000**IP**

0.5 µg - 4 µg antibody for 200 µg - 400 µg extracts of whole cells

IF/ICC 1:5000 - 1:40000**IF-F** 1:500 - 1:5000**IHC-P** 1:3000 - 1:30000**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**

6925

Swiss-Prot

P15884

Immunogen

This information is considered to be commercially sensitive.

Synonyms

E2-2; FCD2; ITF2; PTHS; SEF2; CDG2T; FECD3; ITF-2; SEF-2; TCF-4; SEF2-1; SEF2-1A; SEF2-1B; SEF2-1D; bHLHb19; TCF4

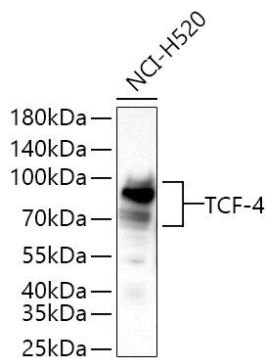
Contact

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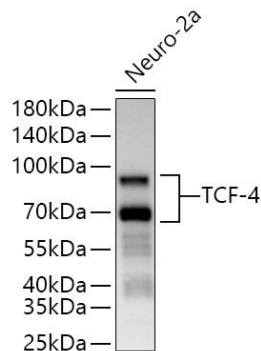
Product Information

Source	Isotype	Purity
Rabbit	IgG	Affinity purification
Storage		
Store at -20°C		

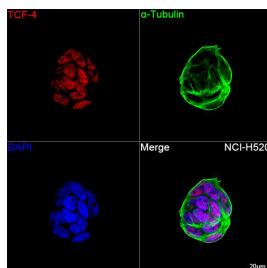
Validation Data



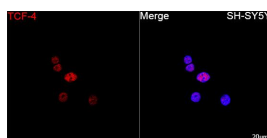
Western blot analysis of lysates from NCI-H520 cells using TCF-4 Rabbit mAb (A30045) at 1:2000 dilution incubated overnight at 4°C.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 45 s.



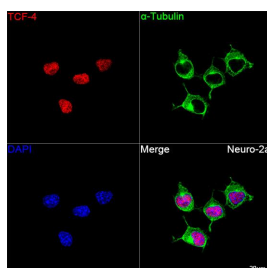
Western blot analysis of lysates from Neuro-2a cells using TCF-4 Rabbit mAb (A30045) at 1:5000 dilution incubated overnight at 4°C.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 45 s.



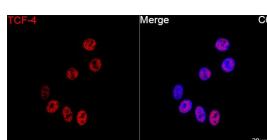
Confocal imaging of NCI-H520 cells using TCF-4 Rabbit mAb (A30045, dilution 1:30000) followed by a further incubation with Cy3-conjugated Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) (AS037, dilution 1:800) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



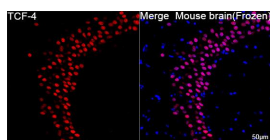
Confocal imaging of SH-SY5Y cells using TCF-4 Rabbit mAb (A30045, dilution 1:30000) followed by a further incubation with Cy3-conjugated Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



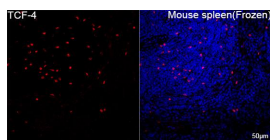
Immunofluorescence analysis of Neuro-2a cells using TCF-4 Rabbit mAb (A30045) at a dilution of 1:5000 (40x lens). Secondary antibody: Cy3-conjugated Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) (AS037, dilution 1:800) (Green). Blue: DAPI for nuclear staining.



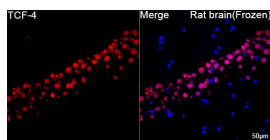
Immunofluorescence analysis of C6 cells using TCF-4 Rabbit mAb (A30045) at a dilution of 1:5000 (40x lens). Secondary antibody: Cy3-conjugated Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



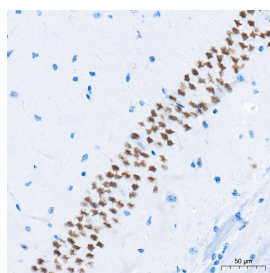
Confocal imaging of frozen sections of Mouse brain tissue using TCF-4 Rabbit mAb (A30045, dilution 1:1000) followed by a further incubation with Cy3-conjugated Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



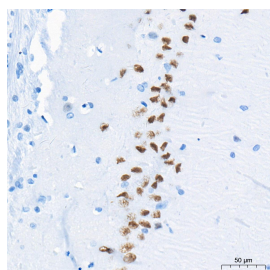
Confocal imaging of frozen sections of Mouse spleen tissue using TCF-4 Rabbit mAb (A30045, dilution 1:1000) followed by a further incubation with Cy3-conjugated Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



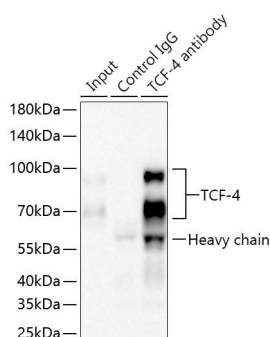
Confocal imaging of frozen sections of Rat brain tissue using TCF-4 Rabbit mAb (A30045, dilution 1:500) followed by a further incubation with Cy3-conjugated Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue using TCF-4 Rabbit mAb (A30045) at a dilution of Mouse brain (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 TCF-4 Rabbit mAb (A30045) at a dilution of 1:30000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunoprecipitation of TCF-4 from 300 µg extracts of SH-SY5Y cells was performed using 0.5 µg of TCF-4 Rabbit mAb (A30045). 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 TCF-4 Rabbit mAb (A30045) at a dilution of 1:5000.