

[KD Validated] β III-Tubulin Rabbit mAb

Catalog No.: A17913 **Recombinant** **26 Publications**

Basic Information

Observed MW

55 kDa

Calculated MW

50 kDa

Category

Primary antibody

Applications

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

Cross-Reactivity

Human, Mouse, Rat

CloneNo number

ARC0456

Background

This gene encodes a class III member of the beta tubulin protein family. Beta tubulins are one of two core protein families (alpha and beta tubulins) that heterodimerize and assemble to form microtubules. This protein is primarily expressed in neurons and may be involved in neurogenesis and axon guidance and maintenance. Mutations in this gene are the cause of congenital fibrosis of the extraocular muscles type 3. Alternate splicing results in multiple transcript variants. A pseudogene of this gene is found on chromosome 6.

Recommended Dilutions

WB	1:80000 - 1:400000
IF/ICC	1:200 - 1:2000
IF-F	1:200 - 1:1000
IF-P	1:200 - 1:2000
IHC-P	1:200 - 1:4000
ELISA	Recommended starting concentration is 1 μ g/mL. Please optimize the concentration based on your specific assay requirements.

Contact

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Immunogen Information

Gene ID

10381

Swiss Prot

Q13509

Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms

CDCBM; FEOM3; TUBB4; CDCBM1; CFEOM3; beta-4; CFEOM3A; β III-Tubulin

Product Information

Source

Rabbit

Isotype

IgG

Purification

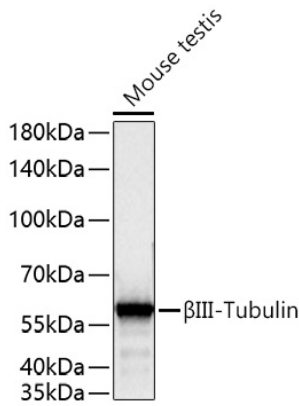
Affinity purification

Storage

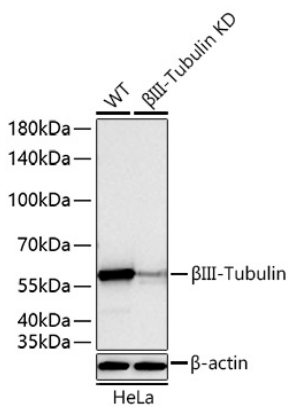
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

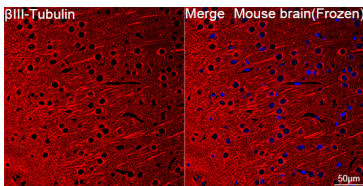
Validation Data



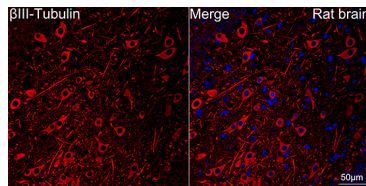
Western blot analysis of lysates from Mouse testis using [KD Validated] β III-Tubulin Rabbit mAb (A17913) at 1:200000 dilution incubated overnight at 4°C.
 Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
 Lysates/proteins: 25 μ g per lane.
 Blocking buffer: 3% nonfat dry milk in TBST.
 Detection: ECL Basic Kit (RM00020).
 Exposure time: 1 s.



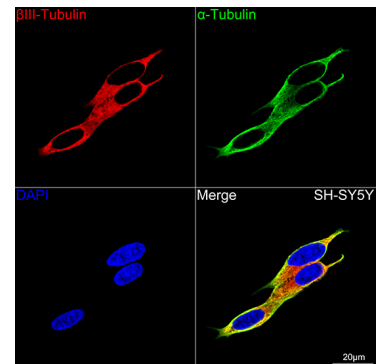
Western blot analysis of lysates from wild type (WT) and SRD5A2 knockdown (KD) HeLa cells using [KD Validated] β III-Tubulin Rabbit mAb (A17913) at 1:200000 dilution incubated overnight at 4°C.
 Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
 Lysates/proteins: 25 μ g per lane.
 Blocking buffer: 3% nonfat dry milk in TBST.
 Detection: ECL Basic Kit (RM00020).
 Exposure time: 30 s.



Confocal imaging of frozen sections Mouse brain tissue using [KD Validated] β III-Tubulin Rabbit mAb (A17913, 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.

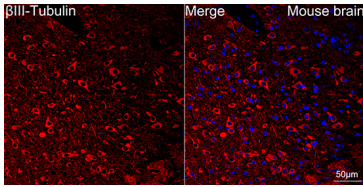


Confocal imaging of paraffin-embedded Rat brain tissue using [KD Validated] β III-Tubulin Rabbit mAb (A17913, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 40x. Perform microwave antigen retrieval with 0.01M citrate buffer (pH 6.0) prior to IF staining.

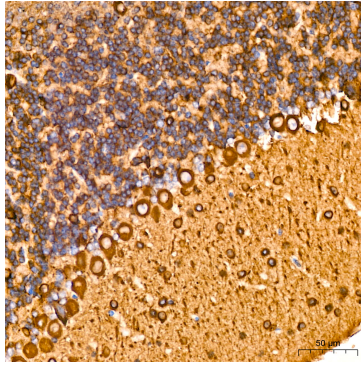


Confocal imaging of SH-SY5Y cells using [KD Validated] β III-Tubulin Rabbit mAb (A17913, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α -Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation 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.

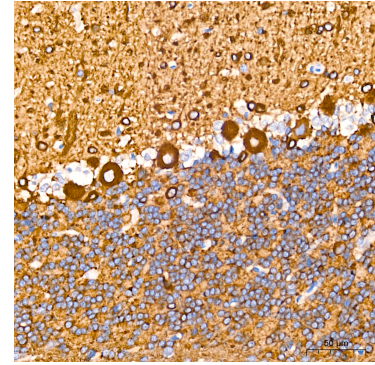
Validation Data



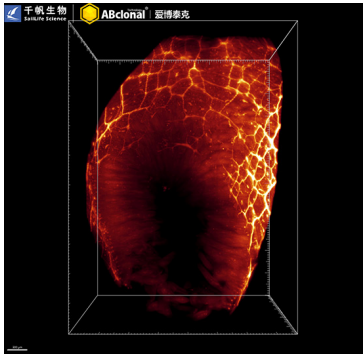
Confocal imaging of paraffin-embedded Mouse brain tissue using [KD Validated] β III-Tubulin Rabbit mAb (A17913, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 40x. Perform high pressure antigen retrieval with 0.01M citrate buffer (pH 6.0) prior to IF staining.



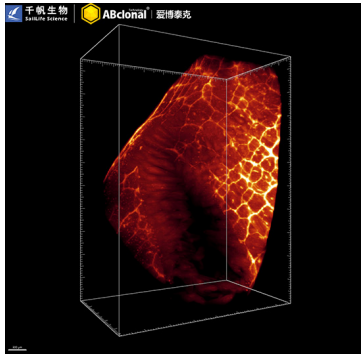
Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue using [KD Validated] β III-Tubulin Rabbit mAb (A17913) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat brain tissue using [KD Validated] β III-Tubulin Rabbit mAb (A17913) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



3D imaging of solvent-cleared Mouse ileum tissue using β III-Tubulin Rabbit mAb (A17913, dilution 1:200). SailClear Tissue Optical Clearing Kit(QF2601) was used for sample clearing. We acknowledge SailLife(Nanjing) Sci-Tech Co., Ltd. in 3D imaging processing and kindly providing this image.



3D imaging of solvent-cleared Mouse ileum tissue using β III-Tubulin Rabbit mAb (A17913, dilution 1:200). SailClear Tissue Optical Clearing Kit(QF2601) was used for sample clearing. We acknowledge SailLife(Nanjing) Sci-Tech Co., Ltd. in 3D imaging processing and kindly providing this image.