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# GSK-3α/β Rabbit mAb

**Catalog No.: A22666** Recombinant

## Basic Information

**Observed MW**
Refer to figures

**Calculated MW**
46kDa/48kDa

**Category**
Primary antibody

**Applications**
ELISA,WB,IHC-P,IF/ICC

**Cross-Reactivity**
Human, Mouse, Rat

**CloneNo number**
ARC55355

## Background

The protein encoded by this gene is a serine-threonine kinase, belonging to the glycogen synthase kinase subfamily. It is involved in energy metabolism, neuronal cell development, and body pattern formation. Polymorphisms in this gene have been implicated in modifying risk of Parkinson disease, and studies in mice show that overexpression of this gene may be relevant to the pathogenesis of Alzheimer disease. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

## Recommended Dilutions

| | |
|---|---|
| **WB** | 1:10000 - 1:60000 |
| **IHC-P** | 1:500- 1:1000 |
| **IF/ICC** | 1:50 - 1:200 |

## Immunogen Information

**Gene ID**
2931/ 2932

**Swiss Prot**
P49840/P49841

**Immunogen**
Recombinant protein of human GSK-3α/β.

**Synonyms**
GSK3B; gsk-3β; GSK-3α/β

## Contact


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## Product Information

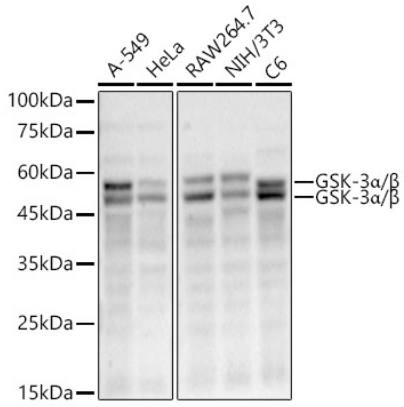
**Source**
Rabbit

**Isotype**
IgG

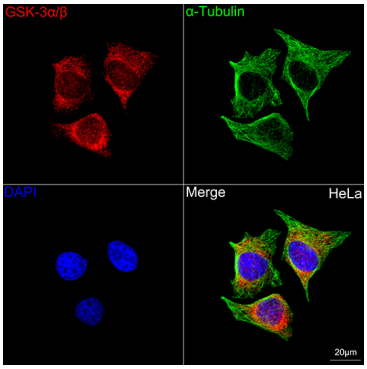
**Purification**
Affinity purification

**Storage**
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

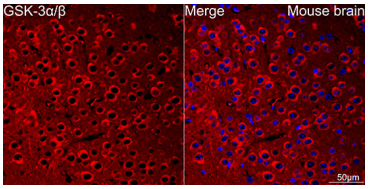
## Validation Data



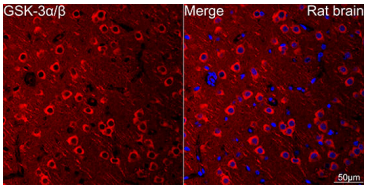

Western blot analysis of various lysates, using GSK-3α/β Rabbit mAb (A22666) at 1:50000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Enhanced Kit (RM00021).
Exposure time: 90s.



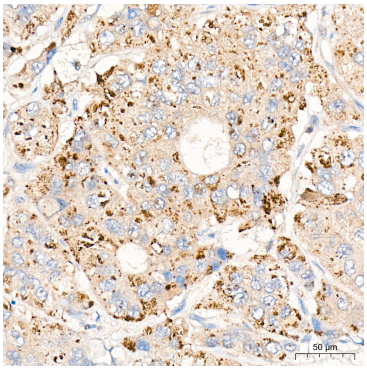

Confocal imaging of HeLa cells using GSK-3α/β Rabbit mAb (A22666, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



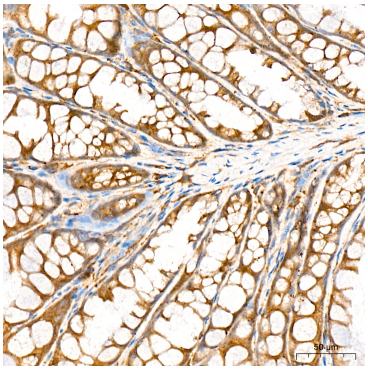

Confocal imaging of paraffin-embedded Mouse brain tissue using GSK-3α/β Rabbit mAb (A22666, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer(pH 6.0) prior to IF staining. Objective: 40x.



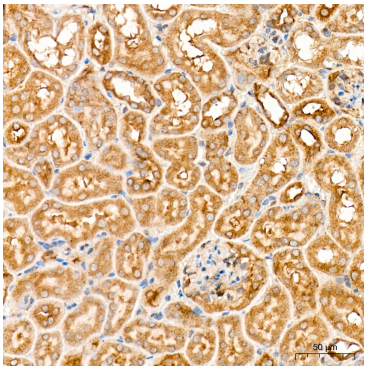

Confocal imaging of paraffin-embedded Rat brain tissue using GSK-3α/β Rabbit mAb (A22666, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer(pH 6.0) prior to IF staining. Objective: 40x.




Immunohistochemistry analysis of GSK-3α/β in paraffin-embedded human liver tissue using GSK-3α/β Rabbit mAb (A22666) at a dilution of 1:800 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.

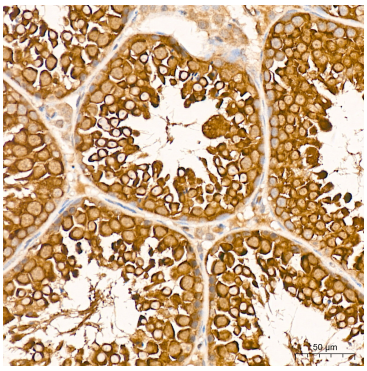



Immunohistochemistry analysis of GSK-3α/β in paraffin-embedded mouse colon tissue using GSK-3α/β Rabbit mAb (A22666) at a dilution of 1:800 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.

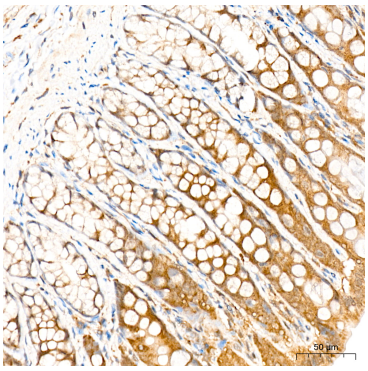



Immunohistochemistry analysis of GSK-3α/β in paraffin-embedded mouse kidney tissue using GSK-3α/β Rabbit mAb (A22666) at a dilution of 1:800 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.

## Validation Data



Immunohistochemistry analysis of GSK-3α/β in paraffin-embedded mouse testis tissue using GSK-3α/β Rabbit mAb (A22666) at a dilution of 1:800 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of GSK-3α/β in paraffin-embedded rat colon tissue using GSK-3α/β Rabbit mAb (A22666) at a dilution of 1:800 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.