Phospho-GSK3B-S9 pAb

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<th>Catalog No.</th>
<th>AP0039</th>
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<td>Applications</td>
<td>WB, IHC</td>
<td>Observed MW</td>
<td>47kDa</td>
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<td>Cross-reactivity</td>
<td>Human, Mouse, Rat</td>
<td>Calculated MW</td>
<td>46kDa/48kDa</td>
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**Immunogen Information**

- Immunogen: A synthetic phosphorylated peptide around S9 of human GSK3B (NP_001139628.1).
- Gene ID: 2932
- Swiss prot: P49841
- Synonyms: GSK3B, glycogen synthase kinase-3 beta

**Product information**

- Source: Rabbit
- Isotype: IgG
- Purification method: Affinity purification
- Storage: Store at -20°C. Avoid freeze / thaw cycles.
  Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.

**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: 1:500 - 1:2000
- IHC: 1:50 - 1:100

![Western blot analysis of extracts of HeLa cells, using Phospho-GSK3B-S9 antibody (AP0039) at 1:2000 dilution. HeLa cells were treated by Calyculin A (100nM) for 30 minutes after serum-starvation overnight. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% BSA. Detection: ECL Basic Kit (RM00020). Exposure time: 1s.](image1)

**Immunohistochemistry**

- Immunohistochemistry of paraffin-embedded rat brain using Phospho-GSK3B-S9 antibody (AP0039) at dilution of 1:100 (40x lens).
- Immunohistochemistry of paraffin-embedded mouse testis using Phospho-GSK3B-S9 antibody (AP0039) at dilution of 1:100 (40x lens).
- Immunohistochemistry of paraffin-embedded rat testis using Phospho-GSK3B-S9 antibody (AP0039) at dilution of 1:100 (40x lens).
Immunohistochemistry of paraffin-embedded mouse brain using Phospho-GSK3B-S9 antibody (AP0039) at dilution of 1:100 (40x lens).

Immunohistochemistry of paraffin-embedded mouse pancreas using Phospho-GSK3B-S9 antibody (AP0039) at dilution of 1:100 (40x lens).