

**GSK-3a Antibody**  
**Rabbit Polyclonal Antibody**  
**Catalog # ABV10363****Specification**

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**GSK-3a Antibody - Product Information**

Application	WB, IHC, IP
Primary Accession	<a href="#">P49840.2</a>
Other Accession	<a href="#">NP_063937.2</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG

**GSK-3a Antibody - Additional Information**

Application & Usage	Western blot analysis (1-2 µg/ml) and Immunohistochemistry (20-30 µg/ml). However, the optimal conditions should be determined individually. The antibody detects GSK-3 from human, mouse, & rat origin; non cross-reactive with GSK-3β.
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**Other Names**

DKFZp686D0638, GSK-3alpha, Glycogen synthase kinase-3, GSK-3 alpha

**Target/Specificity**

GSK-3a

**Antibody Form**

Liquid

**Appearance**

Colorless liquid

**Formulation**

100 µg (0.2 mg/ml) affinity-purified rabbit polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 50% glycerol, 1% BSA, 0.02% sodium azide.

**Handling**

The antibody solution should be gently mixed before use.

**Reconstitution & Storage**

-20 °C

**Background Descriptions****Precautions**

GSK-3a Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

### **GSK-3a Antibody - Protein Information**

### **GSK-3a Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **GSK-3a Antibody - Images**

### **GSK-3a Antibody - Background**

Glycogen synthase kinase 3 (GSK-3) is a serine/threonine protein kinase that has been implicated in the regulation of cell fate and in the Wnt signaling pathway. GSK-3 plays an important role in the PI3 kinase and Akt mediated cell survival pathways, and its activity can be inhibited by Akt-mediated phosphorylation at Ser21 of GSK-3 $\alpha$  and Ser9 of GSK-3 $\beta$ . GSK-3 has also been implicated in alzheimer's disease. Six Tau protein isoforms have been identified, all of which are phosphorylated by GSK-3.