

Datasheet for ABIN969179  
**anti-GSK3 alpha antibody**[Go to Product page](#)

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## Overview

Quantity:	100 µL
Target:	GSK3 alpha (GSK3a)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This GSK3 alpha antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA

## Product Details

Immunogen:	Purified recombinant fragment of GSK3 alpha expressed in E. coli.
Clone:	6G2F1
Purification:	purified

## Target Details

Target:	GSK3 alpha (GSK3a)
Alternative Name:	GSK3 alpha ( <a href="#">GSK3a Products</a> )
Background:	Description: GSK3 alpha (Glycogen synthase kinase 3 alpha), with 483-amino acid protein (about 53 kDa), belongs to the Ser/Thr family of protein kinases, Cdc2/cdkx subfamily, GSK3 subsubfamily, which also includes GSK3 beta. GSK3 is a multifunctional serine/threonine kinase that is usually inactivated by serine phosphorylation in response to extracellular cues. GSK3 is a key regulator of numerous signalling pathways, including cellular responses to Wnt, receptor

## Target Details

tyrosine kinases and G-protein-coupled receptors and is involved in a wide range of cellular processes, ranging from glycogen metabolism to cell cycle regulation and proliferation. GSK3 alpha is implicated in the control of several regulatory proteins including glycogen synthase and transcription factors.

Aliases: DKFZp686D0638, GSK3A

Gene ID: 2931

HGNC: 2931

Pathways: [PI3K-Akt Signaling](#), [WNT Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [cAMP Metabolic Process](#), [Cellular Glucan Metabolic Process](#), [Regulation of Muscle Cell Differentiation](#), [Regulation of G-Protein Coupled Receptor Protein Signaling](#), [ER-Nucleus Signaling](#), [Regulation of Carbohydrate Metabolic Process](#), [BCR Signaling](#), [Warburg Effect](#)

## Application Details

Application Notes: ELISA: 1:10000, WB: 1:500 - 1:2000, IHC: 1:200 - 1:1000

Restrictions: For Research Use only

## Handling

Format: Liquid

Buffer: Ascitic fluid containing 0.03 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

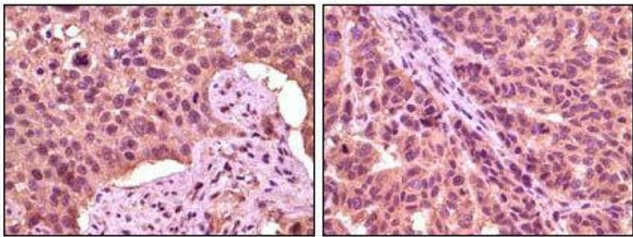
Storage: 4 °C/-20 °C

Storage Comment: 4°C, -20°C for long term storage

## Publications

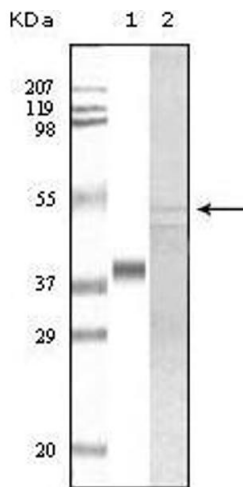
Product cited in: Dupasquier, Abdel-Samad, Glazer, Bastide, Jay, Joubert, Cavaillès, Blache, Quittau-Prévostel: "A new mechanism of SOX9 action to regulate PKCalpha expression in the intestine epithelium." in: **Journal of cell science**, Vol. 122, Issue Pt 13, pp. 2191-6, (2009) ([PubMed](#)).

Gordon, Tan, Benko, Fitzpatrick, Lyonnet, Farlie: "Long-range regulation at the SOX9 locus in development and disease." in: **Journal of medical genetics**, Vol. 46, Issue 10, pp. 649-56, (2009) ([PubMed](#)).



Immunohistochemistry

**Image 1.** Immunohistochemical analysis of paraffin-embedded human lung carcinoma (left) and skin carcinoma (right), showing cytoplasmic localization using GSK3 alpha mouse mAb with DAB staining.



Western Blotting

**Image 2.** Western blot analysis using GSK3 alpha mouse mAb against truncated GSK3 alpha recombinant protein (1) and A549 cell lysate (2).