OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for AP06151PU-S

GSK3 alpha (GSK3A) Rabbit Polyclonal Antibody

Product data:

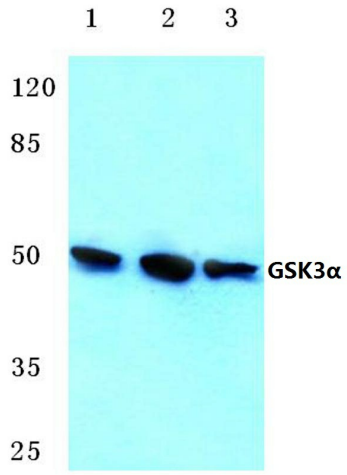
Product Type:	Primary Antibodies
Applications:	ELISA, IHC, IP, WB
Recommended Dilution:	**Western blot:** 1/500-1/1000. **Immunohistochemistry on paraffin sections:** 1/50-1/200. **Immunoprecipitation**: 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids N-terminus of Human GSK3α.
Specificity:	This antibody detects endogenous levels of GSK3α protein. (region surrouding Gly15)
Formulation:	Phosphate buffered saline (PBS), pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction Preservative: 15 mM sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 46, 51 kDa
Gene Name:	glycogen synthase kinase 3 alpha
Database Link:	Entrez Gene 2931 Human P49840

View online »

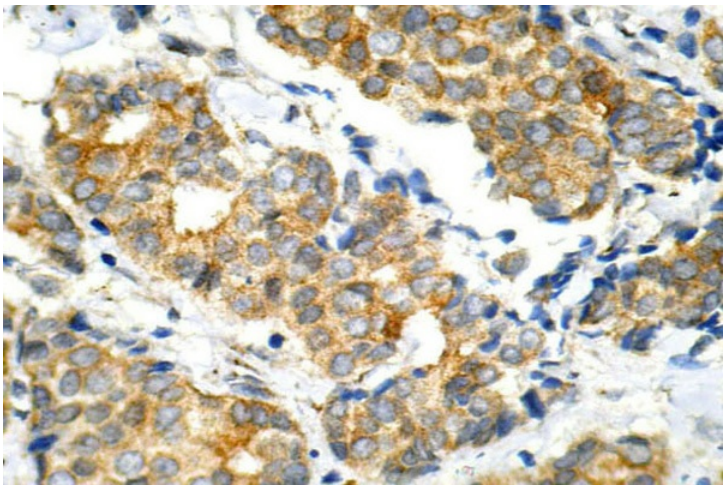
Background: Glycogen synthase kinase 3, or GSK-3, is a serine/threonine, proline-directed kinase involved in a diverse array of signaling pathways, including glycogen synthesis and cellular adhesion, and has been implicated in Alzheimers disease. Two forms of GSK-3, designated GSK-3α and GSK-3β, have been identified and differ in their subcel lular localization. Tau, a microtubule-binding protein which serves to stabilize microtubules in growing axons, is found to be hyper-phosphorylated in paired helical filaments (PHF), the major fibrous component of neurofibrillary lesions associated with Alzheimer's disease. Hyperphosphorylation of Tau is thought to be the critical event leading to the assembly of PHF. Six Tau protein isoforms have been identified, all of which are phosphorylated by GSK-3. This presents the possibility that miscues in GSK-3 signaling contribute to the onset of Alzheimers disease.

Synonyms: Glycogen synthase kinase-3 alpha, GSK3A, GSK-3 alpha, Factor A

Product images:



Western blot (WB) analysis of GSK3a antibody at 1/500 dilution Lane 1:Hela cell lysate Lane 2:Raw264.7 cell lysate Lane 3:PC12 cell lysate



Immunohistochemistry (IHC) analyzes of GSK3a antibody in paraffin-embedded human breast carcinoma tissue.