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 AM20216PU-N

GSK3 alpha (GSK3A) pTyr278/215 (incl. pos. control) Mouse Monoclonal Antibody [Clone ID: 6D3]

Product data:

Product Type:	Primary Antibodies
Clone Name:	6D3
Applications:	WB
Recommended Dilution:	**Immunoblotting:** 0.5 µg/ml for HRPO/ECL detection. *Recommended blocking buffer:* Casein/Tween 20 based blocking and blot incubation buffer AS00002BU-N or AS00002BU-L. *Included Positive Control:* Cell lysate from pervanadate treated HepG2 cells (See Protocols for more details).
Reactivity:	Human, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Phosphopeptide conjugated to hemocyanin **Epitope:** Phosphotyrosine 215, Phosphotyrosine 278
Specificity:	This antibody specifically recognizes GSK3beta phosphorylated at Tyr215 at 46 kDa and GSK3alpha phosphorylated at Tyr278 at 54 kDa in Western blot applications.
Formulation:	1 ml PBS with 0.09% Sodium Azide/PEG and Sucrose State: Purified State: Lyophilized purified IgG fraction.
Reconstitution Method:	Restore with 1 ml H2O (15 min, RT).
Purification:	Subsequent Ultrafiltration and Size Exclusion Chromatography.
Conjugation:	Unconjugated
Storage:	Store lyophilized (preferably in a desiccator) at -20°C and reconstituted (aliquote and freeze in liquid nitrogen) at -80°C. Avoid repeated freezing and thawing. Thaw aliquots at 37°C. Thawed aliquots may be stored at 4°C up to 3 months.
Stability:	Shelf life: one year from despatch.

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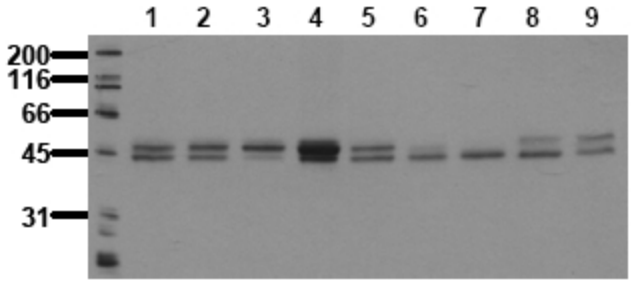
Gene Name:	glycogen synthase kinase 3 alpha
Database Link:	Entrez Gene 606496 MouseEntrez Gene 2931 Human P49840
Background:	Glycogen Synthase Kinase 3 beta (GSK3beta) is a serine/threonine kinase that is acting independently of most signal transduction pathways. The activity of GSK3beta can be modulated by phosphorylation of Ser9 and Tyr215 in the activation loop. GSK3beta plays a crucial role in phosphorylation of beta-catenin and thus is an important kinase involved in the regulation of beta-catenin/wnt-signaling.
Synonyms:	Glycogen synthase kinase-3 alpha, GSK3A, GSK-3 alpha, Factor A
Note:	**Mol. weight:** 46 kDa Protocol: **Positive Control Provided.** **Cell lysate from pervanadate-treated HepG2 cells** **Description:** Cell lysate from pervanadate-treated HepG2 cells, hepatocellular carcinoma (Human) **Format:** Lyophilized cell lysate from from HepG2 cells. Serum starved cells were treated for 15min with pervanadate. **Reconstitution:** Restore by addition of 200 µl H20. After complete solubilization add 200 µl 2x SDS-PAGE sample buffer, mix and incubate at 90°C for 5 min. **Storage:** Aliquote and store frozen. Avoid repeated freeze/thaw cycles. **Application:** The positive control cell lysate is recommended for immunoblot applications. 20 µl of positive control cell lysate correspond to ca. 80.000 cells. Use 20 µl / lane (mini gel) for HRPO/ECL detection of the target proteins. **Please note:** The lyophilized cell lysates contain SDS and are not recommended for applications with native proteins such as immunoprecipitation.
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Chemokine signaling pathway

Product images:



Detection of endogenous GSK3b pTyr215, GSK3a pTyr278: Whole cell lysates of serum starved tumor cells (20.000 cells per lane) were applied to SDS-PAGE and transferred to PVDF membranes. Immunoblots were probed with AM20216PU-N GSK3alpha/beta antibody (Clone 6D3) at 0.5 ug/ml for 1h at RT and developed by ECL (exp. time: 30 sec). Lane 1: HeLa Lane 2: HepG2 Lane 3: HEK293 Lane 4: SH-SY5Y Lane 5: MDCK Lane 6: PC12; Lane 7: CMT 93 Lane 8: Neuro 2A Lane 9: 3T3