

Product datasheet for **AM20216BT-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. <i>Recommended blocking buffer:</i> Casein/Tween 20 based blocking and blot incubation buffer AS00002BU-N or AS00002BU-L. <i>Included Positive Control:</i> 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:	PBS with 0.09% Sodium Azide/PEG and Sucrose. Label: Biotin State: Liquid purified IgG fraction.
Concentration:	lot specific
Purification:	Subsequent Ultrafiltration and Size Exclusion Chromatography.
Conjugation:	Biotin
Storage:	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.
Gene Name:	glycogen synthase kinase 3 alpha



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Database Link:	Entrez Gene 606496 Mouse Entrez 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:	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 H ₂ O. 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