

Mouse Monoclonal Antibody to

GSK3alpha (phospho-Ser 21)

clone 9B8

Order No.: 0158-100/GSK3a-9B8

Size (µg) 100

Lot No.: 0158S



www.nanotools.de

orders & support:

email: info@nanotools.de

phone: +49-7641-455 670

fax: +49-7641-455 671

02/220307F

Isotype	Species Reactivity	Applications	Mol. Weight	Ref.Cell Line	Epitope	Immunogen
IgG1	human, mouse, rat, dog	WB, ELISA	51 kDa	HepG2	R T S p S F A E (phosphoserine 21)	phosphopeptide conjugated to KLH

Background and Specificity:

Glycogen Synthase Kinase 3 (GSK3) exists in two isoforms, alpha and beta (GSK3alpha, GSK3beta). GSK3 is an active kinase that becomes phosphorylated by PKB/akt upon growth factor stimulation. Phosphorylation of GSK3alpha at serine 21 or GSK3beta at serine 9, respectively, leads to inhibition of kinase activity of the GSK3.

Mab GSK3a-9B8 specifically recognizes GSK3alpha phosphorylated at serine 21 (Western blot: 51 kDa) but does not crossreact with the homologous phosphorylation site in GSK3beta (phospho-Ser 9).

Related Products

mab to GSK3alpha
#0211-100/GSK3a-10C1

mab to GSK3beta
#0135-100/GSK3b-11B9

mab to GSK3beta (phospho-Ser9)
#0098-100/GSK3b-2D3
#0185-100/GSK3b-3A8

mab to GSK3beta (phospho-Tyr215)
mab to GSK3alpha (phospho-Tyr278)
#0258-100/GSK3b-6D3

Purification:	The antibody was purified from serum-free cell culture supernatant by subsequent thiophilic adsorption and size exclusion chromatography.
Formulation:	lyophilized from 1 ml 2 x PBS / 0.09 % Na-azide / PEG and Sucrose.
Reconstitution:	Reconstitute with 1 ml H ₂ O (15 min, RT).
Stability:	For long-term storage, freeze lyophilizate upon arrival (-20°C). Upon reconstitution, aliquote and freeze in liquid nitrogen; reconstituted antibody can be stored frozen at -80°C up to 1 year. Thaw aliquots at 37°C. Thawed aliquots may be stored at 4°C up to 3 months.

Avoid repeated freeze / thaw cycles

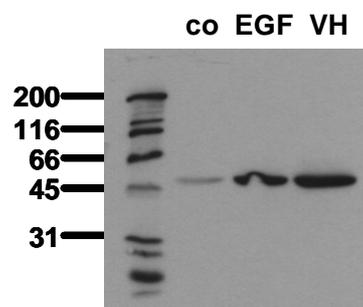
Positive Control: #0812: Cell lysate from pervanadate treated HepG2 cells.

Immunoblotting: 0.5 µg/ml for HRPO/ECL detection
Recommended blocking buffer: Casein/Tween 20 based blocking and blot incubation buffer, e.g. nanoTools product #3031-500/CPPT or #3031-3000/CPPT.

Immunoprecipitation: ND

Immunocytochemistry: ND

ELISA: use at 0.0 5µg/ml



Phosphospecificity

Whole cell extracts of control (co), EGF stimulated (EGF) or pervanadate treated (VH) A431 tumor cells were applied to SDS-PAGE (ca 20.000 cells per lane) and transferred to PVDF membranes. Immunoblots were probed with mab GSK-9B8 (0.5 µg/ml) for 1h at RT and developed by ECL (exp. time: 30 sec).

All products are supplied for research and investigational use only. Not for use in humans or laboratory animals.