


Anti-GSK3 (alpha + beta) (phospho Y216 + Y279) antibody [M132] ab45383

1 References [画像数 1](#)

製品の概要

製品名	Anti-GSK3 (alpha + beta) (phospho Y216 + Y279) antibody [M132]
製品の詳細	Mouse monoclonal [M132] to GSK3 (alpha + beta) (phospho Y216 + Y279)
由来種	Mouse
特異性	This antibody detects 46/50 kDa proteins corresponding to the apparent molecular mass of GSK-3 β and GSK-3 α
アプリケーション	適用あり: WB
種交差性	交差種: Rabbit 交差が予測される動物種: Mouse, Rat 
免疫原	Synthetic peptide corresponding to Human GSK3 (alpha + beta) (phospho Y216) conjugated to keyhole limpet haemocyanin. Database link: P49841
ポジティブ・コントロール	Pervanadate treated rabbit fibroblasts and treated human SKN-SH and A431 cells.
特記事項	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
バッファー	Preservative: 0.05% Sodium azide Constituents: PBS, 50% Glycerol, 0.1% BSA
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	M132

アプリケーション

The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab45383の使用に適用されます**
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

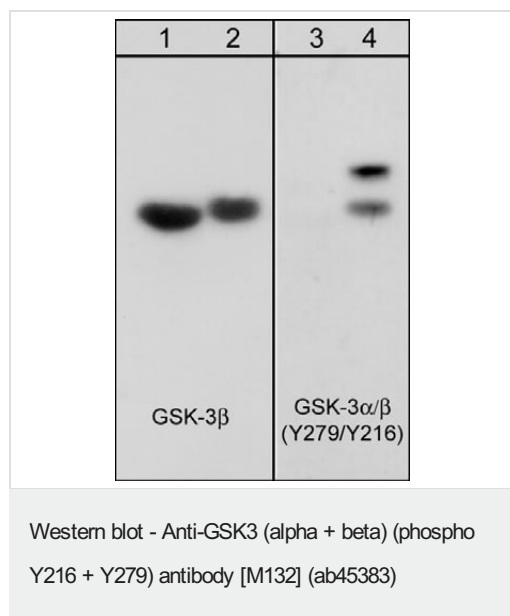
アプリケーション	Abreviews	特記事項
WB		1/1000. Predicted molecular weight: 52 kDa.

ターゲット情報

関連性 Glycogen synthase kinase 3 (GSK3) is a proline directed serine threonine kinase that was initially identified as a phosphorylating and inactivating glycogen synthase, a key enzyme in glycogen metabolism. Since then, it has been shown to be involved in the regulation of a diverse array of cellular functions, including protein synthesis, cell proliferation, cell differentiation, microtubule assembly/disassembly, and apoptosis. GSK3s substrate specificity is unique in that phosphorylation of substrate only occurs if a phosphoserine or phosphotyrosine is present four residues C terminal to the site of GSK phosphorylation. There exists two isoforms of GSK3, alpha and beta, and they show a high degree of amino acid homology. The two isoforms of GSK3 are strictly regulated via phosphorylation. Phosphorylation of GSK3 beta on Ser9 (Ser21 in GSK3 alpha) by protein kinase B (PKB) causes its inactivation is the primary mechanism responsible for growth factor inhibition of this kinase. Activation of GSK3 beta is dependent upon the phosphorylation of Tyr216 (Tyr279 in GSK3 alpha). Upon activation, it has been shown to phosphorylate a number of different cellular proteins, including p53, c-Myc, c-Jun, heat shock factor 1 (HSF1), and cyclin D1. GSK3 beta also has been shown to phosphorylate aberrant sites on the microtubule associated protein tau, which is critical for the progression of Alzheimer's disease. GSK3B is involved in energy metabolism, neuronal cell development, and body pattern formation.

細胞内局在 Cytoplasmic and Nuclear

画像



Lanes 1-2 : anti-GSK-3 β

Lanes 3-4 : Anti-GSK3 (alpha + beta) (phospho Y216 + Y279) antibody [M132] (ab45383) at 1/1000 dilution

Lanes 1 & 3 : rabbit spleen fibroblasts serum starved for 2 hrs

Lanes 2 & 4 : rabbit spleen fibroblasts treated with pervanadate (1 mM) for 30 minutes

Predicted band size: 52 kDa

Observed band size: 46,50 kDa

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