## Product Name: GSK3 alpha (2M16) Rabbit Monoclonal



Catalog #: AMRe11818



## **Summary**

**Production Name** GSK3 alpha (2M16) Rabbit Monoclonal Antibody

**Description** Rabbit Monoclonal Antibody

Host Rabbit
Application WB

**Reactivity** Human, Mouse, Rat

#### **Performance**

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% New type preservative N and 0.05% BSA.
Purification	Affinity purification

### **Immunogen**

Gene Name GSK3A

**Alternative Names** GSK 3 alpha; GSK 3A; GSK-3 alpha; Gsk3a; GSK3alpha;

**Gene ID** 2931.0

**SwissProt ID** P49840.A synthetic peptide of human GSK3 alpha

## **Application**

**Dilution Ratio** WB: 1:2000

Molecular Weight 51kDa

## **Background**

Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838

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**Antibody** 

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Implicated in the hormonal control of several regulatory proteins including glycogen synthase, MYB and the transcription factor JUN. Constitutively active protein kinase that acts as a negative regulator in the hormonal control of glucose homeostasis, Wnt signaling and regulation of transcription factors and microtubules, by phosphorylating and inactivating glycogen synthase (GYS1 or GYS2), CTNNB1/beta-catenin, APC and AXIN1 (PubMed:<a href="http://www.uniprot.org/citations/11749387" target=" blank">11749387</a>, PubMed:<a href="http://www.uniprot.org/citations/17478001" target="\_blank">17478001</a>, PubMed:<a href="http://www.uniprot.org/citations/19366350" target=" blank">19366350</a>), Requires primed phosphorylation of the majority of its substrates (PubMed:<a href="http://www.uniprot.org/citations/11749387" target=" blank">11749387</a>, PubMed:<a href="http://www.uniprot.org/citations/17478001" target=" blank">17478001</a>, PubMed:<a href="http://www.uniprot.org/citations/19366350" target=" blank">19366350</a>). Contributes to insulin regulation of glycogen synthesis by phosphorylating and inhibiting GYS1 activity and hence glycogen synthesis (PubMed: <a href="http://www.uniprot.org/citations/11749387" target=" blank">11749387</a>, PubMed:<a href="http://www.uniprot.org/citations/17478001" target=" blank">17478001</a>, PubMed:<a href="http://www.uniprot.org/citations/19366350" target=" blank">19366350</a>). Regulates glycogen metabolism in liver, but not in muscle (By similarity). May also mediate the development of insulin resistance by regulating activation of transcription factors (PubMed: <a href="http://www.uniprot.org/citations/10868943" target=" blank">10868943</a>, PubMed:<a href="http://www.uniprot.org/citations/17478001" target=" blank">17478001</a>). In Wnt signaling, regulates the level and transcriptional activity of nuclear CTNNB1/beta-catenin (PubMed:<a href="http://www.uniprot.org/citations/17229088" target=" blank">17229088</a>). Facilitates amyloid precursor protein (APP) processing and the generation of APP-derived amyloid plagues found in Alzheimer disease (PubMed: <a href="http://www.uniprot.org/citations/12761548" target=" blank">12761548</a>). May be involved in the regulation of replication in pancreatic beta-cells (By similarity). Is necessary for the establishment of neuronal polarity and axon outgrowth (By similarity). Through phosphorylation of the anti-apoptotic protein MCL1, may control cell apoptosis in response to growth factors deprivation (By similarity). Acts as a regulator of autophagy by mediating phosphorylation of KAT5/TIP60 under starvation conditions, leading to activate KAT5/TIP60 acetyltransferase activity and promote acetylation of key autophagy regulators, such as ULK1 and RUBCNL/Pacer (PubMed:<a href="http://www.uniprot.org/citations/30704899" target=" blank">30704899</a>). Negatively regulates extrinsic apoptotic signaling pathway via death domain receptors. Promotes the formation of an anti- apoptotic complex, made of DDX3X, BRIC2 and GSK3B, at death receptors, including TNFRSF10B. The anti-apoptotic function is most effective with weak apoptotic signals and can be overcome by stronger stimulation (By similarity).

#### Research Area

Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838

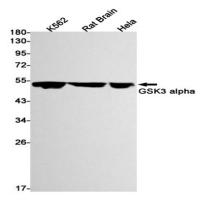
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## **Image Data**



Western blot detection of GSK3 alpha in K562,Rat Brain,Hela cell lysates using GSK3 alpha antibody(1:1000 diluted).

### Note

For research use only.

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