Data Sheet (Cat.No.TMAB-01417)

Anti-Phospho-GSK3B (Tyr216) Polyclonal Antibody

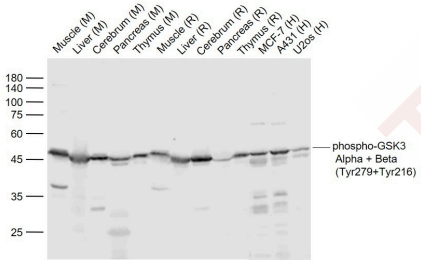
Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat (predicted:Chicken,Dog,Pig,Cow,Horse,Rabbit,Sheep,GuineaPig)
Molecular Weight:	Theoretical: 47 kDa. Actual: 47 kDa.
Purification:	Protein A purified

Applications

Verified Activity:

Sample:
Lane 1: Muscle (Mouse) Lysate at 40 µg
Lane 2: Liver (Mouse) Lysate at 40 µg
Lane 3: Cerebrum (Mouse) Lysate at 40 µg
Lane 4: Pancreas (Mouse) Lysate at 40 µg
Lane 5: Thymus (Mouse) Lysate at 40 µg
Lane 6: Muscle (Rat) Lysate at 40 µg
Lane 7: Liver (Rat) Lysate at 40 µg
Lane 8: Cerebrum (Rat) Lysate at 40 µg
Lane 9: Pancreas (Rat) Lysate at 40 µg
Lane 10: Thymus (Rat) Lysate at 40 µg
Lane 11: MCF-7 (Human) Cell Lysate at 30 µg
Lane 12: A431 (Human) Cell Lysate at 30 µg
Lane 13: U2os (Human) Cell Lysate at 30 µg
Primary: Anti-phospho-GSK3 Alpha + Beta (Tyr279+Tyr216) (TMAB-01417) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 47/51 kDa
Observed band size: 47 kDa



Application:	WB
Recommended	WB: 1:500-2000

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated Synthesised phosphopeptide: human GSK-3 Beta around the phosphorylation site of Tyr216
Antigen Species:	Human
Gene ID:	2932
Uniprot ID:	P49841
Synonyms:	p-GSK3B (Y216);GSK3B (p-Tyr216);glycogen synthase kinase 3 beta;glycogen synthase kinase 3 β;p-GSK3B (Tyr216);GSK3β;GSK-3β;GSK3B (p-Y216)
Biology Area:	Integration of energy metabolism,Metabolism of carbohydrates,Diabetes associated, Hypertrophy,Carbohydrate metabolism,Integration of energy,Cancer,Diabetes,Heart disease, Notch Pathway,Other Kinases,Cytoplasmic,Cytoplasmic

Research Background

The protein encoded by this gene is a serine-threonine kinase, belonging to the glycogen synthase kinase subfamily. It is involved in energy metabolism, neuronal cell development, and body pattern formation. Polymorphisms in this gene have been implicated in modifying risk of Parkinson disease, and studies in mice show that overexpression of this gene may be relevant to the pathogenesis of Alzheimer disease. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Sep 2009]

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