Data Sheet (Cat.No.TMAB-06814)

Anti-GSK-3 Beta Antibody (9M853)

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Molecular Weight:	Theoretical: 47 kDa. Actual: 45 kDa.
Clone:	9M853
Purification:	Protein G purified

Applications

Verified Activity:	1. Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (GSK-3 Beta) Monoclonal Antibody, Unconjugated (TMAB-06814) at 1: 200 overnight at 4°C, followed by operating according to SP Kit (Mouse) instructions and DAB staining. 2. Sample: Lane 1: Cerebrum (Mouse) Lysate at 40 µg Lane 2: Pancreas (Mouse) Lysate at 40 µg Lane 3: Cerebrum (Rat) Lysate at 40 µg Lane 4: Hela (Human) Cell Lysate at 30 µg Lane 5: MCF-7 (Human) Cell Lysate at 30 µg Lane 6: A431 (Human) Cell Lysate at 30 µg Lane 7: U2os (Human) Cell Lysate at 30 µg Primary: Anti-GSK-3 Beta (TMAB-06814) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 47 kD Observed band size: 45 kD 3. Paraformaldehyde-fixed, paraffin embedded Rat Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with GSK-3 Beta Monoclonal Antibody, Unconjugated (ascites of TMAB-06814) at 1:1000 overnight at 4°C, followed by conjugation to the AffiniPure Goat Anti-Mouse IgG H&L-HRP and DAB staining.
Application:	WB,IHC-P,IHC-Fr,IF
Recommended	WB: 1:1000-5000; IHC-P: 1:200-1000; IHC-Fr: 1:200-1000; IF: 1:200-1000

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. 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 synthetic peptide: human GSK-3 Beta
Antigen Species:	Human
Gene ID:	2932
Uniprot ID:	P49841

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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