BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-GSK3 alpha/GSK3A Antibody Picoband®

Catalog Number: A03152-4

About GSK3A

Glycogen synthase kinase-3 alpha is an enzyme that in humans is encoded by the GSK3A gene. It is mapped to 19q13.2. This gene encodes a multifunctional Ser/Thr protein kinase that is implicated in the control of several regulatory proteins including glycogen synthase, and transcription factors, such as JUN. It also plays a role in the WNT and PI3K signaling pathways, as well as regulates the production of beta-amyloid peptides associated with Alzheimer's disease.

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Overview

Product Name	Anti-GSK3 alpha/GSK3A Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-GSK3 alpha/GSK3A Antibody Picoband® catalog # A03152-4. Tested in WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Storage Instructions	Store at -20˚C for one year from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P49840

Technical Details

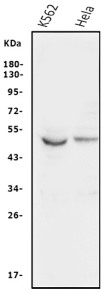
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human GSK3 alpha/GSK3A, which shares 76.5% and 88.2% amino acid (aa) sequence identity with mouse and rat GSK3 alpha/GSK3A, respectively.

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Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5ug/ml, Human

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Anti-GSK3 alpha/GSK3A Antibody Picoband® (A03152-4) Images



Western blot analysis of GSK3 alpha/GSK3A using anti-GSK3 alpha/GSK3A antibody (A03152-4). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: human K562 whole cell lysates, Lane 2: human HELA whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-GSK3 alpha/GSK3A antigen affinity purified polyclonal antibody (Catalog # A03152-4) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for GSK3 alpha/GSK3A at approximately 51KD. The expected band size for GSK3 alpha/GSK3A is at 51KD.

Anti-GSK3 alpha/GSK3A Antibody

For Research Use Only. Not for use in diagnostic procedures.