

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.

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.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
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.
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

Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

Western blot, 0.25-0.5ug/ml, Human

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

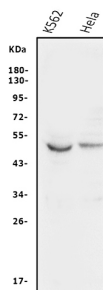


Figure 1. Western blot analysis of GSK3 alpha/GSK3A using anti-GSK3 alpha/GSK3A antibody (A03152-4). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.

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.

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