BOSTER BIOLOGICAL TECHNOLOGY
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Anti-GSTT1 Antibody Picoband®

Catalog Number: A01084

About GSTT1

GSTT1 (glutathione S-transferase theta 1), also known as GST class-theta-1, Glutathione transferase T1-1, is an enzyme that in humans is encoded by the GSTT1 gene. It is a member of a superfamily of proteins that catalyze the conjugation of reduced glutathione to a variety of electrophilic and hydrophobic compounds. Human theta-class GST, termed GSTT1 has 239-amino acid GSTT1 protein shares 80% sequence identity with the rat homolog. Human GSTs can be divided into five main classes: alpha, mu, pi, theta, and zeta. The theta class includes GSTT1 and GSTT2. The GSTT1 and GSTT2 share 55% amino acid sequence identity and both of them were claimed to have an important role in human carcinogenesis. The GSTT1 gene is located approximately 50kb away from the GSTT2 gene. The GSTT1 and GSTT2 genes have a similar structure, being composed of five exons with identical exon/intron boundaries.

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Overview

Product Name	Anti-GSTT1 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-GSTT1 Antibody Picoband® catalog # A01084. Tested in ELISA, WB applications. This antibody reacts with Human, Mouse, Rat. 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	ELISA, 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	P30711

Technical Details

Immunogen	E. coli-derived human GSTT1 recombinant protein (Position: L3-L231).

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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, 0.1-0.5ug/ml ELISA, 0.1-0.5ug/ml

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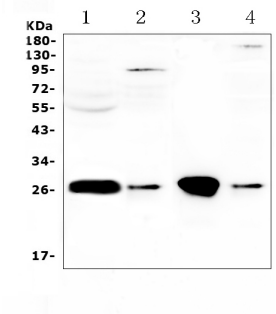
Anti-GSTT1 Antibody Picoband® (A01084) Images



Western blot analysis of GSTT1 using anti-GSTT1 antibody (A01084). 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: rat liver tissue lysates,Lane 2: rat lung tissue lysates,Lane 3: mouse liver tissue lysates,Lane 4: mouse lung tissue 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-GSTT1 antigen affinity purified polyclonal antibody (Catalog # A01084) at 0.5 ug/mL overnight at 4 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 1:10000 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 GSTT1 at approximately 27KD. The expected band size for GSTT1 is at 27KD.

1 Publications Citing This Product

1. PubMed ID: 10.1186/s12967-019-1981-5, Revealing the pathogenic changes of PAH based on multiomics characteristics

Visit bosterbio.com/anti-gstt1-picoband-trade-antibody-a01084-boster.html to see all 1 publications.

Anti-GSTT1 Antibody

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