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Anti-GSTT1 Picoband Antibody

Catalog # ABO12916

Specification

Anti-GSTT1 Picoband Antibody - Product Information

Application	**WB, E**
Primary Accession	GSTT1: P30711
Host	**Rabbit**
Reactivity	**Human, Mouse, Rat**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for GSTT1 detection. Tested with WB, Direct ELISA in Human;Mouse;Rat.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-GSTT1 Picoband Antibody - Additional Information

Application Details
Western blot, 0.1-0.5 µg/ml

 Direct ELISA, 0.1-0.5 µg/ml

Subcellular Localization
Cytoplasm.

Tissue Specificity
Found in erythrocyte. Expressed at low levels in liver. In lung, expressed at low levels in Clara cells and ciliated cells at the alveolar/bronchiolar junction. Absent from epithelial cells of larger bronchioles.

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

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

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins.

Storage	**At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time. Avoid repeated freezing and thawing.**

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Anti-GSTT1 Picoband Antibody - Protein Information

Anti-GSTT1 Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-GSTT1 Picoband Antibody - Images

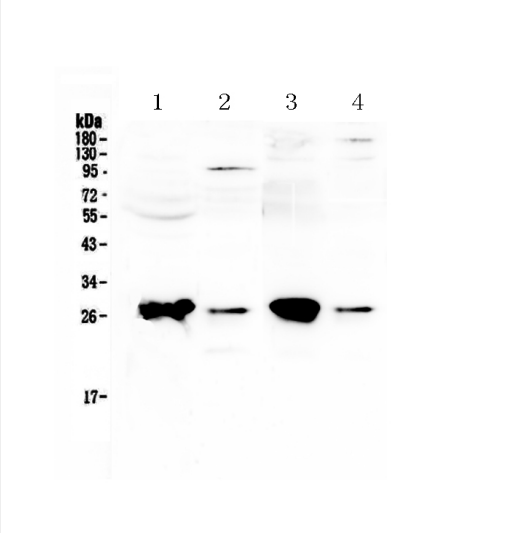

Figure 1. Western blot analysis of GSTT1 using anti-GSTT1 antibody (ABO12916). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: rat liver tissue 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 # ABO12916) 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 with Tanon 5200 system. A specific band was detected for GSTT1 at approximately 27KD. The expected band size for GSTT1 is at 27KD.

Anti-GSTT1 Picoband Antibody - Background

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.