

## Anti-GPD1L Antibody Picoband™

Catalog Number: A07912-1

### About GPD1L

GPD1L is a human gene. It is mapped to 3p22.3. The protein encoded by this gene contains a glycerol-3-phosphate dehydrogenase (NAD+) motif and shares 72% sequence identity with GPD1. The encoded protein is found in the cytoplasm, associated with the plasma membrane, where it binds the sodium channel, voltage-gated, type V, alpha subunit (SCN5A). Defects in this gene are a cause of Brugada syndrome type 2 (BRS2) as well as sudden infant death syndrome (SIDS).

### Overview

Product Name	Anti-GPD1L Antibody Picoband™
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-GPD1L Antibody Picoband™ catalog # A07912-1. Tested in ELISA, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg NaN <sub>3</sub> .
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	Q8N335

### Technical Details

Immunogen	E.coli-derived human GPD1L recombinant protein (Position: A19-T351).
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 µg/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, 0.1-0.5 $\mu$ g/ml

Direct ELISA, 0.1-0.5 $\mu$ g/ml

For protocols, please visit <https://www.bosterbio.com/protocol-and-troubleshooting/>

## Anti-GPD1L Antibody Picoband™ (A07912-1) Images



Boster Kit Box

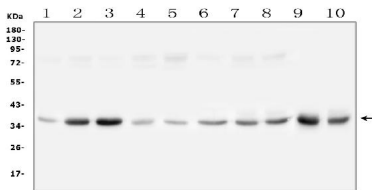


Figure 1. Western blot analysis of GPD1L using anti-GPD1L antibody (A07912-1). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.

Lane 1: human placenta issue lysates,  
Lane 2: human PC-3 whole cell lysates,  
Lane 3: human U-87MG whole cell lysates,  
Lane 4: human HL-60 whole cell lysates,  
Lane 5: human HepG2 whole cell lysates,  
Lane 6: human A549 whole cell lysates,  
Lane 7: human Caco-2 whole cell lysates,  
Lane 8: human K562 whole cell lysates,  
Lane 9: rat heart issue lysates,  
Lane 10: mouse RAW246.7 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-GPD1L antigen affinity purified polyclonal antibody (Catalog # A07912-1) 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 1:10000 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 GPD1L at approximately 38KD. The expected band size for GPD1L is at 38KD.

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