

Anti-TUBG1/2 Antibody Picoband™

Catalog Number: A06313-2

About TUBG1/2

Tubulin, gamma 1/2 is a protein in humans that is encoded by the TUBG1/2 gene. This gene encodes a member of the tubulin superfamily. The encoded protein localizes to the centrosome where it binds to microtubules as part of a complex referred to as the gamma-tubulin ring complex. The protein mediates microtubule nucleation and is required for microtubule formation and progression of the cell cycle. A pseudogene of this gene is found on chromosome 7.

Overview

Product Name	Anti-TUBG1/2 Antibody Picoband™
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-TUBG1/2 Antibody Picoband™ catalog # A06313-2. Tested in ELISA, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Storage Instructions	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 freezing and thawing.
Host	Rabbit
Uniprot ID	P23258/Q9NRH3

Technical Details

Immunogen	E.coli-derived human TUBG1/2 recombinant protein (Position: Q167-Q394).
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, 0.1-0.25 µg/ml, Human, Mouse, Rat

Direct ELISA, 0.1-0.5 µg/ml, Human

Anti-TUBG1/2 Antibody Picoband™ (A06313-2) Images

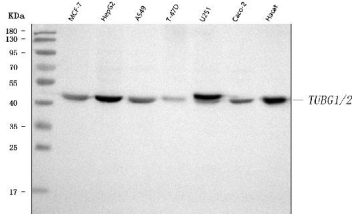


Figure 1. Western blot analysis of TUBG1/2 using anti-TUBG1/2 antibody (A06313-2).

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 30 ug of sample under

reducing conditions.

Lane 1: human MCF-7 whole cell lysates,

Lane 2: human HepG2 whole cell lysates,

Lane 3: human A549 whole cell lysates,

Lane 4: human T-47D whole cell lysates,

Lane 5: human U251 whole cell lysates,

Lane 6: human Caco-2 whole cell lysates,

Lane 7: human Hacat whole cell lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA 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-TUBG1/2 antigen affinity purified polyclonal antibody

(Catalog # A06313-2) at 0.25 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 TUBG1/2 at approximately 51 kDa. The expected band size for TUBG1/2 is at 51 kDa.

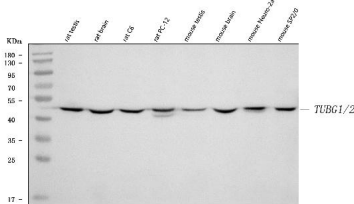


Figure 2. Western blot analysis of TUBG1/2 using anti-TUBG1/2 antibody (A06313-2).

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 30 ug of sample under

reducing conditions.

Lane 1: rat testis tissue lysates,

Lane 2: rat brain tissue lysates,

Lane 3: rat C6 whole cell lysates,

Lane 4: rat PC-12 whole cell lysates,

Lane 5: mouse testis tissue lysates,

Lane 6: mouse brain tissue lysates,

Lane 7: mouse Neuro-2a whole cell lysates,

Lane 8: mouse SP2/0 whole cell lysates.

After electrophoresis, proteins were transferred to a

nitrocellulose membrane at 150 mA 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-TUBG1/2 antigen affinity purified polyclonal antibody

(Catalog # A06313-2) at 0.25 ug/mL overnight at 4°C, then

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