

Anti-WEE1 Antibody Picoband™

Catalog Number: A01319-2

About WEE1

Wee1 is a nuclear kinase belonging to the Ser/Thr family of protein kinases in the fission yeast *Schizosaccharomyces pombe* (*S. pombe*). It is mapped to 11p15.4. This gene encodes a nuclear protein, which is a tyrosine kinase belonging to the Ser/Thr family of protein kinases. This protein catalyzes the inhibitory tyrosine phosphorylation of CDC2/cyclin B kinase, and appears to coordinate the transition between DNA replication and mitosis by protecting the nucleus from cytoplasmically activated CDC2 kinase.

Overview

Product Name	Anti-WEE1 Antibody Picoband™
Reactive Species	Human, Mouse
Description	Boster Bio Anti-WEE1 Antibody Picoband™ catalog # A01319-2. Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Human, Mouse.
Application	ELISA, Flow Cytometry, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.01mg 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	P30291

Technical Details

Immunogen	E.coli-derived human WEE1 recombinant protein (Position: R13-R581).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
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, 0.25-0.5µg/ml, Human, Mouse
Flow Cytometry, 1-3µg/1x10⁶ cells, Human
Direct ELISA, 0.1-0.5µg/ml, Human

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

Anti-WEE1 Antibody Picoband™ (A01319-2) Images

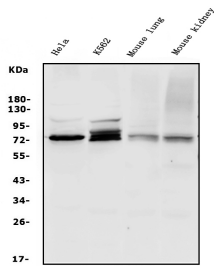


Figure 1. Western blot analysis of WEE1 using anti-WEE1 antibody (A01319-2). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50µg of sample under reducing conditions.
Lane 1: human HeLa whole cell lysates,
Lane 2: human K562 whole cell lysates,
Lane 3: mouse lung tissue lysates,
Lane 4: mouse kidney 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-WEE1 antigen affinity purified polyclonal antibody (Catalog # A01319-2) at 0.5 µg/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 WEE1 at approximately 72KD. The expected band size for WEE1 is at 72KD.

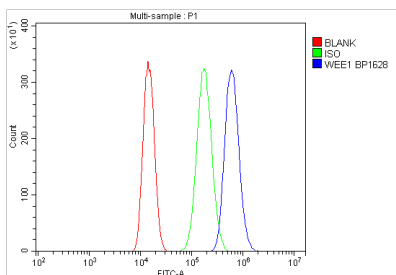


Figure 2. Flow Cytometry analysis of A549 cells using anti-WEE1 antibody (A01319-2). Overlay histogram showing A549 cells stained with A01319-2 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-WEE1 Antibody (A01319-2, 1µg/1x10⁶ cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1µg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

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