

Rabbit anti-Human, Mouse WEE1 Polyclonal Antibody | anti-WEE1 antibody

Anti-WEE1 Antibody

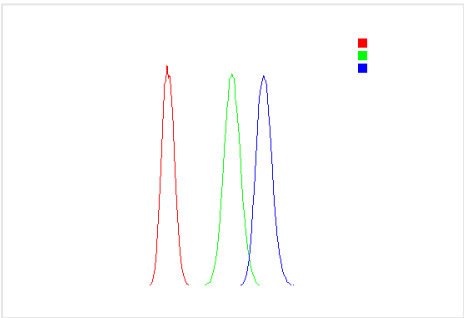
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19240	Rabbit	Human, Mouse	Western Blot, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

WEE1; Polyclonal Antibody; Anti-WEE1 Antibody; Wee1-like protein kinase; WEE1hu; EC 2. 7. 10. 2; Wee1A kinase; WEE1 G2 checkpoint kinase; anti-WEE1 antibody

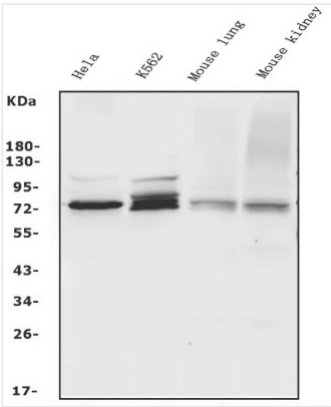
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 0.9mg NaCl, 0.2mg Na ₂ HPO ₄
Applicable Applications for anti-WEE1 antibody	WB (Western Blot), FCM/FACS (Flow Cytometry), ELISA (Direct ELISA)
Application Notes	WB: Concentration: 0.25-0.5ug/ml; Tested Species: Human, Mouse FC: Concentration: 1-3ug/1x10⁶ cells; Tested Species: Human Direct ELISA: Concentration: 0.1-0.5ug/ml; Tested Species: Human Tested Species: In-house tested species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.
Immunogen	E Coli-derived human WEE1 recombinant protein (Position: R13-R581).
Reconstitution	0.2ml of distilled water will yield a concentration of 500ug/ml.
Relavent Detection Systems	Lab recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG for Western blot.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for 6 months. Avoid repeated freezing and thawing.



FCM (Flow Cytometry)

Figure 2. Flow Cytometry analysis of A549 cells using anti-WEE1 antibody (AAA19240).Overlay histogram showing A549 cells stained with AAA19240 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-WEE1 Antibody (AAA19240, 1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree 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.



WB (Western Blot)

Figure 1. Western blot analysis of WEE1 using anti-WEE1 antibody (AAA19240).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 HeLa whole cell lysatesLane 2: human K562 whole cell lysatesLane 3: mouse lung tissue lysatesLane 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 # AAA19240) at 0. 5 μg/mL overnight at 4 degree 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 #) with Tanon 5200 system. A specific band was detected for WEE1 at approximately 72KD. The expected band size for WEE1 is at 72KD.

ADDITIONAL INFORMATION

Related Product Information for anti-WEE1 antibody	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 111p15.4. 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.
References	1. Heald, R., McLoughlin, M., McKeon, F. Human wee1 maintains mitotic timing by protecting the nucleus from cytoplasmically activated cdc2 kinase. Cell 74: 463-474, 1993. 2. Igarashi, M., Nagata, A., Jinno, S., Suto, K., Okayama, H. Wee1(+)-like gene in human cells. Nature 353: 80-83, 1991. 3. Matsuo, T., Yamaguchi, S., Mitsui, S., Emi, A., Shimoda, F., Okamura, H. Control mechanism of the circadian clock for timing of cell division in vivo. Science 302: 255-259, 2003.

NCBI AND UNIPROT INFORMATION

NCBI GI #	221307502
NCBI GeneID	7465
NCBI Accession #	NP_001137448.1
NCBI GenBank Nucleotide #	NM_001143976.1
UniProt Accession #	P30291; B3KVE1; D3DQV0
NCBI Official Full Name	wee1-like protein kinase isoform 2
NCBI Official Synonym Full Names	WEE1 homolog (S. pombe)
NCBI Official Symbol	WEE1
NCBI Official Synonym Symbols	WEE1A; WEE1hu

NCBI Protein Information	wee1-like protein kinase; wee1A kinase; WEE1+ homolog
UniProt Protein Name	Wee1-like protein kinase
UniProt Gene Name	WEE1
UniProt Synonym Gene Names	WEE1hu
UniProt Entry Name	WEE1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/wee1-antibody-western-blot-flow-cytometry-direct-elisa-elisa/19240>