

Rabbit WEE1 Polyclonal Antibody | anti-WEE1 antibody

Phospho-WEE1 (Ser139) Antibody

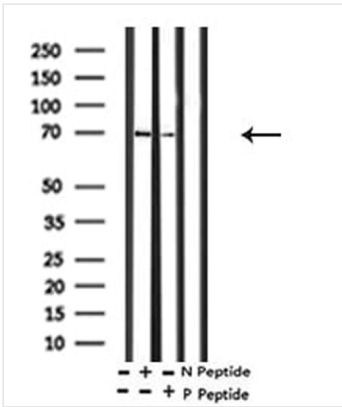
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA328442	Rabbit	Human, Mouse, Rat Predicted: Pig, Rabbit, Dog	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

WEE1; Polyclonal Antibody; Phospho-WEE1 (Ser139) Antibody; DKFZp686I18166; EC 2.7.10.2; FLJ16446; MGC105683; OTTHUMP00000231338; OTTHUMP00000231339; Wee 1; WEE 1 homolog 1 (S. pombe); WEE1 homolog (S. pombe); Wee1 homolog; WEE1 homolog S. pombe; Wee1 like protein kinase; Wee1 tyrosine kinase; Wee1+ homolog; Wee1+ S. pombe homolog; S. pombe; homolog of; somatic; Wee1-like protein kinase; WEE1_HUMAN; WEE1A; Wee1A kinase; WEE1hu; anti-WEE1 antibody

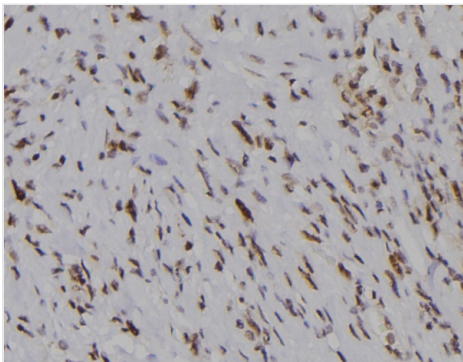
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted: Pig, Rabbit, Dog
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-WEE1 (Ser139) Antibody detects endogenous levels of WEE1 only when phosphorylated at Ser139.
Purity/Purification	Purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
Form/Format	Liquid; Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	432
Applicable Applications for anti-WEE1 antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human WEE1 around the phosphorylation site of Ser139.
Subcellular Location	Nucleus
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



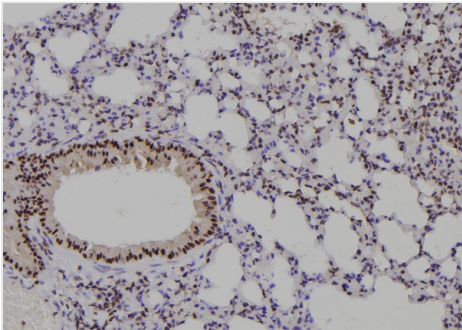
WB (Western Blot)

Western blot analysis of Phospho-WEE1 (Ser139) in lysates of 293 etoposide 25uM 60', using Phospho-WEE1 (Ser139) Antibody.



IHC (Immunohistochemistry)

At 1/100 staining human gastric cancer tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary



IHC (Immunohistochemistry)

At 1/100 staining mouse lung tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary

ADDITIONAL INFORMATION

Related Product Information for anti-WEE1 antibody

Description: Acts as a negative regulator of entry into mitosis (G2 to M transition) by protecting the nucleus from cytoplasmically activated cyclin B1-complexed CDK1 before the onset of mitosis by mediating phosphorylation of CDK1 on 'Tyr-15'. Specifically phosphorylates and inactivates cyclin B1-complexed CDK1 reaching a maximum during G2 phase and a minimum as cells enter M phase. Phosphorylation of cyclin B1-CDK1 occurs exclusively on 'Tyr-15' and phosphorylation of monomeric CDK1 does not occur. Its activity increases during S and G2 phases and decreases at M phase when it is hyperphosphorylated. A correlated decrease in protein level occurs at M/G1 phase, probably due to its degradation.

Post Translational Modifications: Phosphorylated during M and G1 phases. Also autophosphorylated. Phosphorylation at Ser-642 by BRSK1 and BRSK2 in post-mitotic neurons, leads to down-regulate WEE1 activity in polarized neurons. Phosphorylated at Ser-53 and Ser-123 by PLK1 and CDK1, respectively, generating an signal for degradation that can be recognized by the SCF(BTRC) complex, leading to its ubiquitination and degradation at the onset of G2/M phase. Dephosphorylated at Thr-239 by CTD1P1. Ubiquitinated and degraded at the onset of G2/M phase.

Similarity: Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. WEE1 subfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #	221307502
NCBI GeneID	7465
NCBI Accession #	NP_001137448.1

NCBI GenBank Nucleotide #	NP_001137448.1
UniProt Accession #	P30291
Molecular Weight	Observed: 71 kDa Predicted: 72 kDa
NCBI Official Full Name	wee1-like protein kinase isoform 2
NCBI Official Synonym Full Names	WEE1 G2 checkpoint kinase
NCBI Official Symbol	WEE1
NCBI Official Synonym Symbols	WEE1A; WEE1hu
NCBI Protein Information	wee1-like protein kinase
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-peptide-elisa-immunohistochemistry-western-blot-elisa/328442>