

Anti-WEE2 Antibody

Catalog # AP53957

Product Information

Application	WB
Primary Accession	P0C1S8
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	62925

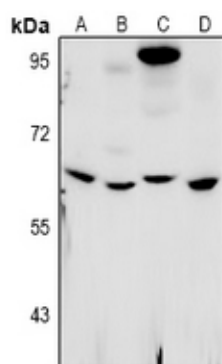
Additional Information

Gene ID	494551
Other Names	WEE1B; Wee1-like protein kinase 2; Wee1-like protein kinase 1B; Wee1B kinase
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human WEE2. The exact sequence is proprietary.
Dilution	WB~~1/500 - 1/1000
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	WEE2
Synonyms	WEE1B
Function	Oocyte-specific protein tyrosine kinase that phosphorylates and inhibits CDK1/CDC2 and acts as a key regulator of meiosis during both prophase I and metaphase II (PubMed: 29606300). Required to maintain meiotic arrest in oocytes during the germinal vesicle (GV) stage, a long period of quiescence at dictyate prophase I, by phosphorylating CDK1 at 'Tyr-15', leading to inhibit CDK1 activity and prevent meiotic reentry. Also required for metaphase II exit during egg activation by phosphorylating CDK1 at 'Tyr-15', to ensure exit from meiosis in oocytes and promote pronuclear formation (By similarity).
Cellular Location	Nucleus
Tissue Location	Expressed in oocytes (at protein level) (PubMed:29606300). May also be expressed in testis (PubMed:11029659)

Images



Western blot analysis of WEE2 expression in Hela (A), PC3 (B), MEF (C), rat testis (D) whole cell lysates. (Predicted band size: 62 kD; Observed band size: 63 kD)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.