

For Research Use Only

WEE2 Polyclonal antibody

Catalog Number: 55119-1-AP



Basic Information

Catalog Number: 55119-1-AP	GenBank Accession Number: NM_001105558	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 400 ug/ml by Nanodrop and 473 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 494551	Recommended Dilutions: WB 1:500-1:1000
Source: Rabbit	UNIPROT ID: POC1S8	
Isotype: IgG	Full Name: WEE1 homolog 2 (S. pombe)	
	Calculated MW: 63 kDa	
	Observed MW: 63-66 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : Jurkat cells, human ovary tissue
Species Specificity: human	

Background Information

WEE2, also named as WEE1B, belongs to the protein kinase superfamily. Ser/Thr protein kinase family and WEE1 subfamily. It phosphorylates and inhibits CDK1. WEE2 may act as a negative regulator of entry into mitosis (G2 to M transition). WEE2 is conserved from yeast to humans. The aim of the present study was to determine the spatiotemporal expression pattern and the function of WEE2 during oocyte maturation in a nonhuman primate species, the rhesus macaque. Taking the long double-stranded RNA-mediated RNA interference approach, down-regulation of WEE2 led to meiotic resumption in a subset of GV oocytes even in the presence of a phosphodiesterase 3 inhibitor. Overexpression of WEE2 delays the reentry of oocytes into meiosis in both mice and monkeys. WEE2 is a conserved oocyte-specific meiosis inhibitor that functions downstream of cAMP in nonhuman primates. (PMID: 20200212) The antibody is specific to WEE2.

Storage

Storage:
Store at -20°C.
Storage Buffer:
0.1M NaHCO₃, 0.1M glycine, 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

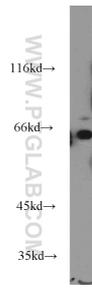
For technical support and original validation data for this product please contact:

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Selected Validation Data



Jurkat cells were subjected to SDS PAGE followed by western blot with 55119-1-AP (WEE2 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.