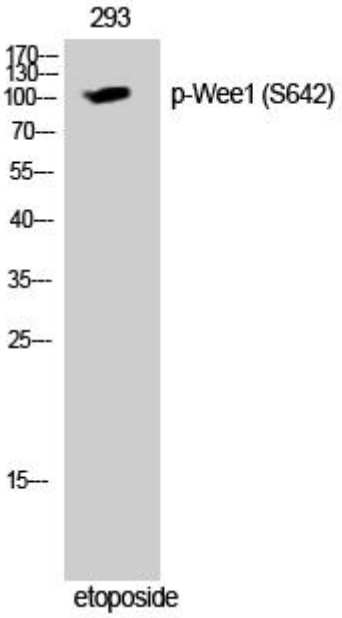
Wee1 (phospho Ser642) Monoclonal Antibody

Catalog No	YP-mAb-14384
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	WEE1
Protein Name	Wee1-like protein kinase
Immunogen	The antiserum was produced against synthesized peptide derived from human WEE1 around the phosphorylation site of Ser642. AA range:597-646
Specificity	Phospho-Wee1 (S642) Monoclonal Antibody detects endogenous levels of Wee1 protein only when phosphorylated at S642.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	WEE1; Wee1-like protein kinase; WEE1hu; Wee1A kinase
Observed Band	100kD
Cell Pathway	Nucleus.
Tissue Specificity	Amygdala,Blood,Epithelium,Human uterus endothel primary cell culture,Placenta,Skin,
Function	catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate.,cofactor:Binds 2 magnesium ions per subunit.,enzyme regulation:Synthesis is increased during S and G2 phases, presumably by an increase in transcription; activity is decreased by phosphorylation during m phase. Protein levels fall in M phase as a result of decreased synthesis combined with degradation. Activity seems to be negatively regulated by phosphorylation upon entry into mitosis, although N-terminal phosphorylation might also regulate the protein stability via protection from proteolysis or might regulate the subcellular location.,function:May act as a negative regulator of entry into mitosis (G2 to M transition) by protecting the nucleus from cytoplasmically activated cyclin B1-complexed CDC2 before the onset of mitosis. Its activity increases during S and G2 phases and decreases at M phase
Background	WEE1 G2 checkpoint kinase(WEE1) Homo sapiens 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. [provided by RefSeq, Jul 2008],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using Wee1 (phospho Ser642) Monoclonal Antibody