Immunotag™ Phospho-WEE1 (Ser642) Antibody

Antibody Specification

Catalog No.	ITA8486
Product Description	Immunotag™ Phospho-WEE1 (Ser642) Antibody
Size	100 µg, 200 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	Phospho-WEE1 (Ser642)
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,IF/ICC,ELISA
Recommended Dilution	WB 1:1000-3000, IF/ICC 1:100-1:500
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	A synthesized peptide derived from human Phospho-WEE1 (Ser642)
Specificity	Phospho-WEE1 (Ser642) Antibody detects endogenous levels of WEE1 only when phosphorylated at Ser642
Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
Form	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt
Gene Name	WEE1
Accession No.	P30291

Antibody Specification

Alternate Names	DKFZp686I18166; EC 2.7.10.2; FLJ16446; MGC105683; OTTHUMP00000231338; OTTHUMP00000231339; Wee 1; WEE 1 homolog 1 (S. pombe); WEE1; WEE1 homolog (S. pombe); Wee1 homolog; WEE1 homolog S. pombe; Wee1 like protein kinase; Wee1 tyrosine kinase; Wee1+ homolog; Wee1+ S. pombe homolog; WEE1, S. pombe, homolog of; WEE1, somatic; Wee1-like protein kinase; WEE1_HUMAN; WEE1A; Wee1A kinase; WEE1hu;
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.
Cell Pathway/ Category	Primary Polyclonal Antibody
Protein MW	71 kDa
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.