Best Tools for immunology Research

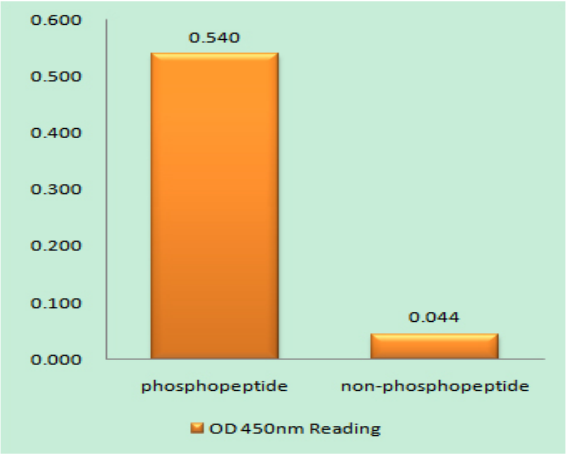
p57 (phospho Thr310) Polyclonal Antibody

Catalog No :	YP0927
Reactivity :	Human;Mouse
Applications :	WB;IHC;IF;ELISA
Target :	p57
Fields :	>>Cell cycle
Gene Name :	CDKN1C
Protein Name :	Cyclin-dependent kinase inhibitor 1C
Human Gene Id :	1028
Human Swiss Prot No :	P49918
Mouse Gene Id :	12577
Mouse Swiss Prot No :	P49919
Immunogen :	The antiserum was produced against synthesized peptide derived from human p57 Kip2 around the phosphorylation site of Thr310. AA range:267-316
Specificity :	Phospho-p57 (T310) Polyclonal Antibody detects endogenous levels of p57 protein only when phosphorylated at T310.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:10000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

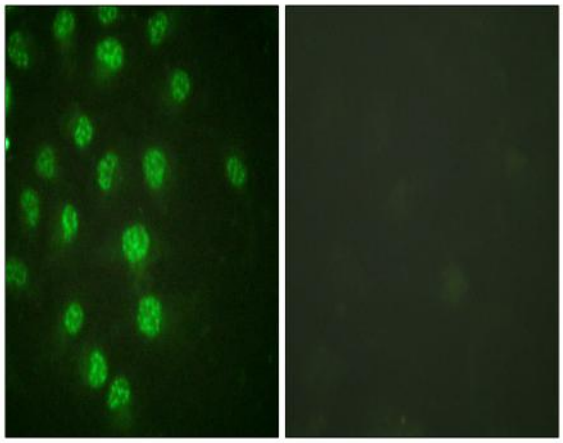
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	32kD
Cell Pathway :	Cell_Cycle_G1S;Cell_Cycle_G2M_DNA;
Background :	This gene is imprinted, with preferential expression of the maternal allele. The encoded protein is a tight-binding, strong inhibitor of several G1 cyclin/Cdk complexes and a negative regulator of cell proliferation. Mutations in this gene are implicated in sporadic cancers and Beckwith-Wiedemann syndorome, suggesting that this gene is a tumor suppressor candidate. Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Oct 2010],
Function :	disease:Defects in CDKN1C are a cause of Beckwith-Wiedemann syndrome (BWS) [MIM:130650]. BWS is a genetically heterogeneous disorder characterized by anterior abdominal wall defects including exomphalos (omphalocele), pre- and postnatal overgrowth, and macroglossia. Additional less frequent complications include specific developmental defects and a predisposition to embryonal tumors.,disease:Defects in CDKN1C are involved in tumor formation.,function:Potent tight-binding inhibitor of several G1 cyclin/CDK complexes (cyclin E-CDK2, cyclin D2-CDK4, and cyclin A-CDK2) and, to lesser extent, of the mitotic cyclin B-CDC2. Negative regulator of cell proliferation. May play a role in maintenance of the non-proliferative state throughout life.,similarity:Belongs to the CDI family.,tissue specificity:Expressed in the heart, brain, lung, skeletal muscle, kidney, pancreas and testis. High levels ar
Subcellular Location :	Nucleus .
Expression :	Expressed in the heart, brain, lung, skeletal muscle, kidney, pancreas and testis. Expressed in the eye. High levels are seen in the placenta while low levels are seen in the liver.
Tag :	orthogonal
Sort :	11504
No2 :	2558S
No4 :	1
Host :	Rabbit

Modifications : Phospho

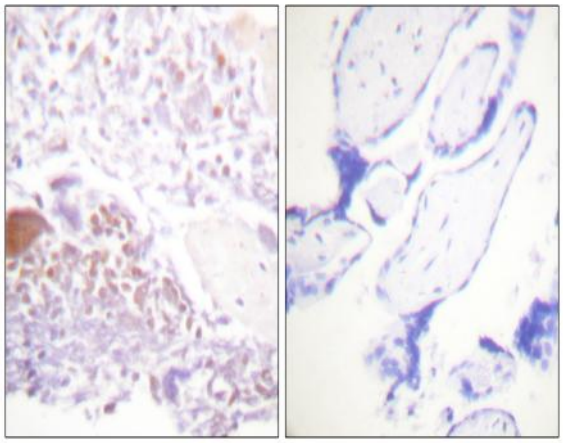
Products Images



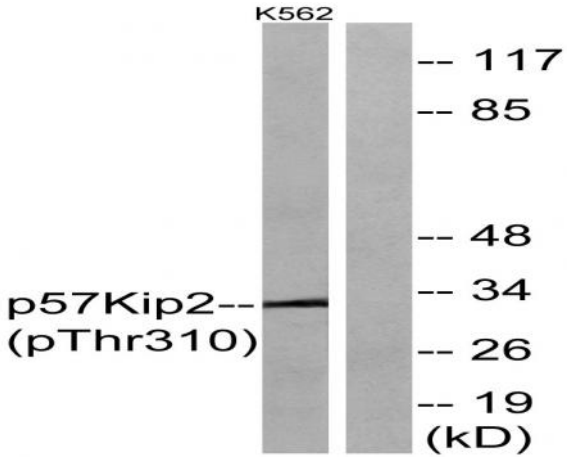
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using p57 Kip2 (Phospho-Thr310) Antibody



Immunofluorescence analysis of HUVEC cells treated with serum 20% 30', using p57 Kip2 (Phospho-Thr310) Antibody. The picture on the right is blocked with the phospho peptide.



Immunohistochemistry analysis of paraffin-embedded human placenta, using p57 Kip2 (Phospho-Thr310) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from K562 cells treated with insulin 0.01U/ml 15', using p57 Kip2 (Phospho-Thr310) Antibody. The lane on the right is blocked with the phospho peptide.