



Mouse anti-P57/Kip2 Monoclonal Antibody

Synonym: p57; Kip2, CDKN1C(cyclin-dependent kinase inhibitor 1C)

ANTIGEN PREPARATION

Recombinant human p57/Kip2 protein.

BACKGROUND

p57/Kip 2 (or CDKN 1C) is a tight-binding strong inhibitor of several G1 cycline/Cdk complexes and a negative regulator of cell proliferation. The gene is a tumor suppressor which is located on chromosome 11p15.5. Mutations in this gene are implicated in sporadic cancers and Beckwith-Wiedemann syndrome (BWS). Several types of childhood tumors including Wilms' tumor, adrenocortical carcinoma and rhabdomyosarcoma display a specific loss of maternal 11p15 alleles, suggesting that genomic imprinting plays an important part. This region also contains two other imprinted genes, insulin like growth factor II (IGF II) and H19, both of which seem to be implicated in adrenal neoplasms.

PURIFICATION

The Mouse IgG is purified according to Isotyping by Protein A Chromatography from ascites fluid.

SPECIFICITY

This antibody recognizes human p57 protein. It cross reacts to mouse. The other species was not tested.

FORMULATION

This affinity purified antibody is supplied in sterile Phosphate-buffered saline (pH7.2) containing antibody stabilizer

STORAGE

The antibodies are stable for 12 months from date of receipt when stored at -20°C to -70°C . The antibodies can be stored at 2°C - 8°C for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

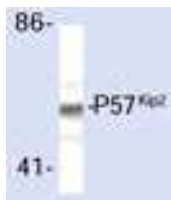
APPLICATIONS/SUGGESTED WORKING DILUTIONS

Western Blot	0.1-1 $\mu\text{g/ml}$
ELISA	0.01-0.1 $\mu\text{g/ml}$
Immunoprecipitation	2-5 $\mu\text{g/ml}$
IHC	2-5 $\mu\text{g/ml}$
Flow cytometry	Not tested

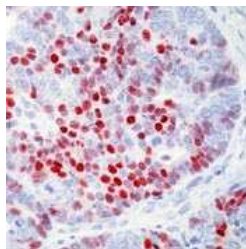
MOLECULAR WEIGHT:	~57 kDa
POSITIVE CONTROL:	Human placenta, Colon Ca, LS174T
CELLULAR LOCATION:	Nuclear

Optimal dilutions should be determined by researchers for the specific applications.

DATA ATTACHMENTS



IP: The cell lysate derived from Human LS174T cells (5 mg/ml) was immunoprecipitated (IP) by Mouse anti IR-1 (Cat# 500-6354) at 10 $\mu\text{g/ml}$. A major band around ~57 kDa is observed.



IHC: The human colon carcinoma tissue was stained with Mouse anti p57 monoclonal antibody (Cat#500-6354) at 1:100. (Note: formalin-fixed, paraffin-embedded sections need 15 minutes heat-induced epitope retrieval in 10 mmol/L citrate buffer, pH 6.0, and 30 minutes incubation at room temperature with the primary antibody.

REFERENCES

Matsuoka,S., Edwards,M.C., Bai,C., Parker,S., Zhang,P., Baldini,A., Harper,J.W. and Elledge,S.J p57KIP2, a structurally distinct member of the p21CIP1 Cdk inhibitor family, is a candidate tumor suppressor gene. Genes Dev. 9 (6), 650-662 (1995).

FOR RESEARCH USE ONLY.

Order Information

Description: Ms anti-P57/Kip2
Catalogue#: 500-6354
Lot#: See the label
Size: 100 μg /200 μl
Host: Mouse
Clone: SPM308
Isotyping: IgG1. κ
Application: ELISA, WB, IP, IHC
Reactivity: Hu, Ms