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# p21
# Recombinant Rabbit Monoclonal Antibody
# Product Datasheet

**Catalog#** BX50063
**Clone#** BP6068

**Predicted Molecular Wt:** 18kDa
**Species Cross-reactivity:** Human
**Applications:** IHC-P

**Purity:** ProA affinity purified IgG
**Form:** Liquid
**Swissprot ID:** P38936

**Background:**

p21, also known as cyclin-dependent kinase inhibitor 1 or CDK-interacting protein 1, is a protein that in humans is encoded by the CDKN1A gene located on chromosome 6 (6p21.2). The p21 protein binds to and inhibits the activity of cyclin-CDK2 or -CDK4 complexes, and thus functions as a regulator of cell cycle progression at G1.

p21 is expressed in all adult human tissues. In tumors, the expression of p21 has been studied by immunohistochemical methods in a wide range of human tumors, such as gastric carcinoma, non-small cell lung carcinoma, and thyroid carcinoma. The expression of p21 is associated with favorable prognosis in various tumors.

**Subcellular location:**

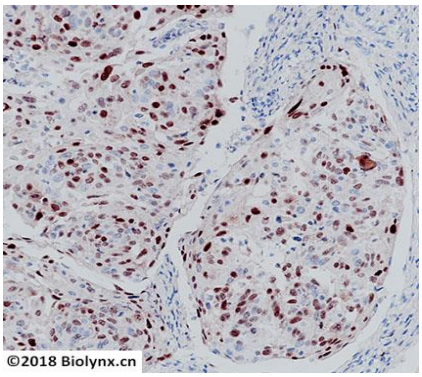
Nucleus

**Recommended method:**

Heat induced epitope retrieval with Tris-EDTA buffer (pH 9.0), primary antibody incubate at RT (18°C-25°C) for 30 minutes.

**Immunogen:**

Synthetic peptide corresponding to p21 residues within aa1-100 of p21 was used as an immunogen.




Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections analysis of cervix cancer tissue labelling p21 with BP6068. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.0

**Storage Buffer:**

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

**Storage conditions:**

-20°C

**Storage instructions:**

Shipped on blue ice. Upon delivery, aliquot, and store at -20°C. Avoid freeze / thaw cycles.

**Recommended Dilutions:**

IHC-P: 1:100-1:200

**Background References:**

1. Komiya T et al. Clin Cancer Res. 1997 Oct;3(10):1831-5.
2. Natsugoe S et al. Clin Cancer Res. 1999 Sep;5(9):2445-9.

**Product QC'd by:**

**For research use only. Not for use in diagnostic or therapeutic applications.**