

## p16 Mouse Monoclonal Antibody Product Datasheet

Catalog# BX50261

Clone# BPM6238

**Predicted Molecular Wt:** 17kDa  
**Species Cross-reactivity:** Human  
**Applications:** IHC-P

**Purity:** ProA affinity purified IgG  
**Form:** Liquid  
**Swissprot ID:** P42771

### Background:

The progression of cells through the cell cycle is regulated by a family of protein kinases known as cyclin-dependent kinases (Cdks). The sequential activation of individual members of this family and their consequent phosphorylation of critical substrates promotes orderly progression through the cell cycle. Moreover, the gene encoding p16 INK4A exhibits a high frequency of homozygous deletions and point mutations in established human tumor cell lines.

p16 INK4A expression is commonly inhibited by lack of stress and is thought to promote cellular senescence. And p16 INK4A expression is a commonly used cellular marker of senescence.

p16 INK4A protein expression is normally altered in human cancer cells, and its high expression can be used as a predictive biomarker in cervical cancer cells.

### Subcellular location:

Nuclues

### 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:

Full length recombinant p16 INK4A of human origin was used as an immunogen.

### Storage Buffer:

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

### Storage Conditions:

-25°C to -18°C

### Shipment Instructions:

Shipped on blue ice. Upon delivery store at -25°C to -18°C. Avoid freeze / thaw cycles.

### Recommended Dilution:

IHC-P: 1:100-1:200


### Background References:

1. Romagosa, C. et al. (2011) Oncogene 30, 2087-97.
2. LaPak, K.M. and Burd, C.E. (2014) Mol Cancer Res 12, 167-83.



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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of cervical intraepithelial neoplasias (CIN) labelling p16 with BPM6238.

Product QC'd by: 

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