

# p16INK4a (ZR407)

## Rabbit Monoclonal Antibody

**Host:** Rabbit  
**Specificity:** Human  
**Immunogen:** Purified recombinant prokaryotic full-length human p16INK4a protein  
**Ig Class:** IgG  
**Storage:** Store at 2-8°C for up to 2 years for concentrate form and 18 months for predilute form.

**Specifications:** p16INK4a (ZR407) Rabbit Monoclonal primary antibody detects p16INK4a protein in formalin-fixed, paraffin-embedded samples by immunohistochemical (IHC) staining.

**Staining procedures:** Use formalin-fixed and paraffin-embedded sections. Retrieval conditions: Pretreatment of deparaffinized samples via heat-induced epitope retrieval is recommended. Detection method: Polymer anti-mouse/rabbit Ig detection system. Working dilution: 1:100-200. Positive Control: sample known to contain p16INK4a protein.

**Localization:** Cytoplasmic and nuclear.

**Intended Use:** Research Use Only (RUO). This antibody is not for diagnostic use.

**Description:** p16/INK4a is a tumor suppressor protein. It is a specific inhibitor of cdk4/cdk6, and a tumor suppressor involved in the pathogenesis of a variety of malignancies. Recent analyses of the p16/INK4a gene revealed homozygous deletions, nonsense, missense, or frameshift mutations in several human cancers. Although the frequency of p16/INK4a abnormalities is higher in tumor-derived cell lines than in unselected primary tumors, significant subsets of clinical cases with aberrant p16/INK4a gene have been reported among melanomas, gliomas, esophageal, pancreatic, lung, and urinary bladder carcinomas, and some types of leukemia. The expression of p16/INK4a (p16 positive) is reported to correlate highly with human papillomavirus (HPV) infection in head and neck squamous cell carcinomas (HNSCC). p16/INK4a expression status indicates valuable disease progression staging in HNSCC, wherein the p16/INK4a positive/HPV16 negative group is commonly assumed to be likely a distinct subgroup lacking any HPV genotype.

**Supplied As:** Purified antibody in Tris-HCl pH 7.4 buffer containing stabilizing proteins (including < 1% Bovine Serum Albumin) and < 0.1% ProClin by volume.

### References:

1. Mahajan A. Hum Pathol. 2016;51:64-74.
2. Snow AN, et al. Adv Anat Pathol. 2010; 17:394-403.
3. Buza N, et al. Int J Surg Pathol. 2010; 18:94-102.

**REF** Z2763RL/ Z2763RS/ Z2763RT/ Z2763RP (1.0ml Concentrate/ 0.5ml Con./ 0.1ml Con./ 7ml Pre-dil)




605 E. Huntington Dr.,  
Suite 204  
Monrovia, CA 91016  
Tel: (626) 355-2053  
<http://www.zeta-corp.com>


**RUO**  
(research  
use only)

**LOT**  
(lot number)

**REF**  
(catalogue  
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Instructions  
for Use)