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## P16<sup>INK4a</sup> (Clone MX007)

### Mouse Monoclonal Antibody

**Specificity:** Human. Others-not known

**Immunogen:** Recombinant human p16<sup>INK4a</sup> protein ( aa1-156)

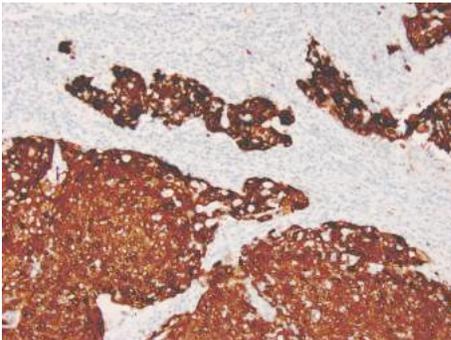
**Ig Class:** IgG1/κ

**Storage:** Store vial at 4°C. When stored at 2-8°C, this antibody is stable for 24 months

**Staining procedures:** Use formalin-fixed and paraffin-embedded sections. *Retrieval conditions:* Pretreatment of deparaffinized tissue with heat-induced epitope retrieval is recommended. *Detection methods:* Polymer anti-mouse/rabbit Ig detection system. *Working dilution:* 1:100; *Positive Control:* HPV infected cervical squamous cell carcinoma. *Cellular Localization:* Cytoplasmic and nuclear. *Intended Use:* In vitro diagnosis (IVD).

**Description:** As one of the cyclin-dependent kinase inhibitors that inhibit cyclin-dependent kinases (CDK) 4 and 6, p16<sup>INK4a</sup> is encoded by the tumor suppressor gene CDKN2A. 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<sup>INK4a</sup> gene revealed homozygous deletions, nonsense, missense, or frameshift mutations in several human cancers. Although the frequency of p16<sup>INK4a</sup> abnormalities is higher in tumor-derived cell lines than in unselected primary tumors, significant subsets of clinical cases with aberrant p16<sup>INK4a</sup> gene have been reported among melanomas, gliomas, esophageal, pancreatic, lung, and urinary bladder carcinomas, and some types of leukemia.

**Supplied As:** Purified antibody with 0.2% BSA and 15mM sodium azide.



#### References:

1. Mahajan A. *Hum Pathol.* 2016 May;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.

*Formalin-fixed, paraffin-embedded invasive cervical squamous cell carcinoma stained with anti-p16 antibody using peroxidase-conjugate and DAB chromogen. Note the nuclear and cytoplasmic staining of carcinoma cells.*

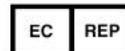
Cat. #Z2016 (1.0 ml)

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