

P16^{INK4a} (Clone G175-405)

Mouse Monoclonal Antibody

Specificity: Human. Does not react with mouse and rat. Others-not known

Immunogen: A synthetic peptide from the C-terminus of human p16^{INK4a}

Ig Class: IgG2

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:* Cervical squamous cell carcinoma. *Cellular Localization:* Cytoplasmic and nuclear. *Intended Use:* Analyte specific reagent (ASR).

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.

Supplied As: Antibody in 0.2% BSA and 15mM sodium azide.



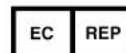
Formalin-fixed, paraffin-embedded high grade cervical intraepithelial neoplasia (CINIII) stained with anti-p16 antibody using peroxidase-conjugate and DAB chromogen. Note the nuclear and cytoplasmic staining of dysplastic cells all the way to the top (lower right), whereas the normal squamous mucosa is negative (upper left)

Cat. #Z2117 (1.0 ml)

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