# Recombinant CDKN2A / p16INK4a / p14ARF Antibody

Rabbit Monoclonal Antibody [Clone MSVA-016R]

| Catalog No | Format | Size |
|---|---|---|
| 1029-RBM51-P0 | Purified Ab with BSA and Azide | 20 ug |
| 1029-RBM51-P1 | Purified Ab with BSA and Azide | 100 ug |

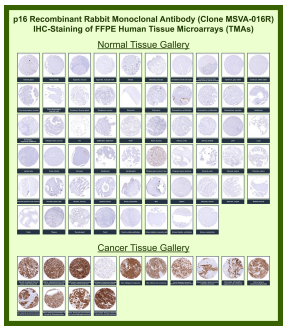
| Applications | Tested Dillution | Note |
|---|---|---|
| Immunohistochemistry (IHC) | 1:100-1:200 | Manual Protocol: Freshly cut sections should be used (less than 10 days between cutting and staining). Heat-induced antigen retrieval for 5 minutes in an autoclave at 121°C in pH 7.8 Target Retrieval Solution buffer. Apply the antibody at a dilution of 1:150 at 37°C for 60 minutes. Visualization of bound antibody by the EnVision Kit (Dako, Agilent) according to the manufacturer's directions. |

## Product Details

| | |
|---|---|
| **Clone** | MSVA-016R |
| **Immunogen** | Purified recombinant prokaryotic full-length human p16INK4a protein |
| **Host** | Rabbit |
| **Clonality** | Monoclonal |
| **Isotype / Light Chain** | IgG / Kappa |
| **Mol. Weight of Antigen** | 14kDa |
| **Cellular Localization** | Cytoplasm, Nucleus |
| **Species Reactivity** | Human |
| **Positive Control** | Pancreas: at least a moderate staining is expected in islets of Langerhans |

**Optimal dilution for a specific application should be determined.*

## Product Images for Recombinant CDKN2A / p16INK4a / p14ARF Antibody




Cyclin-dependent kinase inhibitor 2A Rabbit Recombinant Monoclonal Antibody (MSVA-016R) tested on many normal and cancer tissues. The immunohistochemistry staining in these tissues aligns with the expression data in Human Protein Atlas.

## Specificity & Comments

p16INK4a 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 p16INK4a gene revealed homozygous deletions, nonsense, missense, or frameshift mutations in several human cancers. Although the frequency of p16INK4a abnormalities is higher in tumor derived cell lines than in unselected primary tumors, significant subsets of clinical cases with aberrant p16INK4a gene have been reported among melanomas, gliomas, esophageal, pancreatic, lung, and urinary bladder carcinomas, and some types of leukemia. Expression of p16INK4a (p16 positive) is highly correlated with human papilloma virus (HPV) infection in head and neck squamous cell carcinomas (HNSCC). p16 status is an important prognostic indicator in HNSCC and the p16 positive/HPV16 negative group is likely a distinct subgroup lacking any HPV genotype.

## Supplied As

Ab produced in HEK293 cell mammalian-based expression system. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide.

## Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

## Research Areas

Bladder Cancer, Cardiovascular, Defective Intrinsic Apoptosis, Infectious Disease, Nuclear Marker, Transcription Factors

## Limitations and Warranty