

# HPV-Infected Tumor Cocktail (ZR407 + ZM67)

## Rabbit & Mouse Monoclonal Antibody Cocktail

**Host:** Rabbit & Mouse  
**Specificity:** Human  
**Immunogen:** Purified recombinant prokaryotic full-length human p16INK4a protein, Recombinant human Ki67 protein fragment (around aa2293-2478)  
**Ig Class:** IgG + IgG1/k  
**Storage:** When stored at 2-8°C, this antibody cocktail is stable for 18 months.

**Specifications:** HPV-Infected Tumor Cocktail (ZR407 + ZM67) Rabbit & Mouse Monoclonal Primary Antibody Cocktail detects p16 and Ki-67 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: Dual AP/HRP Detection Polymer System.

Working dilution: Ready-to-use.

Positive Control: Sample known to contain p16 and Ki-67 protein.

**Localization:** Cytoplasmic/nuclear.

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

**Description:** Zeta's recombinant antibody dual stain cocktail contains two defined monoclonals that recognize specific proteins in. p16 INK4a is a tumor suppressor protein involved in the pathogenesis of a variety of malignancies, and is expressed in the nucleoplasm of proliferating cells, functioning as an inhibitor of CDK4. Tumors infected with HPV can express high level of P16 protein. The Ki-67 nuclear antigen is associated with cell proliferation. It is found throughout the cell cycle in the G1, S, G2, and M phases; but not the (G0) phase. An optimized antibody cocktail for p16 INK4a and Ki-67 is useful in the identification of tumor cells co-expressing both tumor suppression marker P16 (red) and cell proliferation marker Ki-67 (brown).

**Supplied As:** Purified antibodies diluted in Tris-HCl buffer containing stabilizing protein and <0.1% ProClin.

### References:

1. Baranov E, et al: Am J Surg Pathol. 2020;44(7):922-933.
2. Perret R, et al: Am J Surg Pathol. 2021;45(4):582-584.
3. Lasota J, et al: Am J Surg Pathol. 2024;48(1):97-105.

**Z2835MRP-R (7ml Pre-dil)****ZETA** Corporation

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(research  
use only)



(lot number)



(catalogue  
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(expiry date)



(temperature  
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(consult  
Instructions  
for Use)