

# Melanoma Cocktail (ZR383 + 4C4.9)

## Rabbit & Mouse Monoclonal Antibody Cocktail

**Host:** Rabbit & Mouse  
**Specificity:** Human  
**Immunogen:** Recombinant fragment (around aa100-509) of human PRAME protein; Purified bovine brain S-100.  
**Ig Class:** IgG + IgG2a/k  
**Storage:** When stored at 2-8°C, this antibody cocktail is stable for 18 months.

**Specifications:** Melanoma Cocktail (ZR383 + 4C4.9) Rabbit & Mouse Monoclonal Primary Antibody Cocktail detects PRAME and S-100 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 PRAME and S-100 protein.

**Localization:** Nuclear/cytoplasmic.

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

**Description:** Zeta's Melanoma Dual Stain Cocktail contains recombinant antibodies against both PRAME (red) and S-100 (brown). PRAME (Preferentially Expressed Antigen in Melanoma) functions as a transcriptional repressor, inhibiting the signaling of retinoic acid through the retinoic acid receptors RARA, RARB and RARG. It prevents retinoic acid-induced cell proliferation arrest, differentiation, and apoptosis. This gene encodes an antigen that is preferentially expressed in human melanomas and that is recognized by cytolytic T lymphocytes. It is not expressed in normal tissues, except testis. S-100 belongs to the family of calcium binding proteins such as calmodulin and troponin C. S-100 protein is expressed in melanocytes and the antigen presenting cells such as the Langerhans cells in skin and interdigitating reticulum cells in the paracortex of lymph nodes. Antibody to S-100 stains Schwannomas, ependymomas, astroglomas, almost all benign and malignant melanomas and their metastases.

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

### References:

1. Lezcano C, et al. Am J Surg Pathol, 2018, 42: 1456-1465.
2. Kaczorowski M, et al. Am J Surg Pathol. 2022; 46: 1467- 1476.
3. Kuhn HJ, et al. Am J Clin Pathol. 1983; 79:341-347. 2.
4. Yaziji H, et al. Int J Surg Pathol. 2003; 11:11-5. 3.

**REF** Z2838MRP-R (7ml Pre-dil)



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(research  
use only)



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Instructions  
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