

# Retinoblastoma (Rb) (ZR444)

## Rabbit Monoclonal Antibody

**Host:** Rabbit  
**Specificity:** Human  
**Immunogen:** Recombinant human Rb1 protein  
**Ig Class:** IgG  
**Storage:** Store at 2-8°C for up to 2 years for concentrate form and 18 months for predilute form.

**Specifications:** Retinoblastoma (Rb) (ZR444) Rabbit Monoclonal primary antibody detects Retinoblastoma 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: Polymer anti-mouse/rabbit Ig detection system. Working dilution: 1:100-200. Positive Control: sample known to contain Retinoblastoma Protein.

**Localization:** Nucleus.

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

**Description:** Recognizes a 105 kDa phosphoprotein, identified as a retinoblastoma (Rb) gene product. It shows no cross-reaction with p107 or p130. It reacts with the hyper-phosphorylated as well as the un phosphorylated form of the Rb protein. Retinoblastoma gene product plays a key role in cell cycle control. It has been identified as a tumor suppressor gene whose loss of its function leads to tumor development. It is widely expressed in a variety of human tissues, including breast, esophageal, squamous cell, and cervical carcinoma. Some tumors, with Rb gene mutations, are detected negative for Rb expression, such as spindle cell lipoma and breast myofibroblastomas.

**Supplied As:** Purified antibody in Tris-HCl pH 7.4 buffer containing stabilizing proteins (including < 1% Bovine Serum Albumin) and < 0.1% ProClin by volume.

### References:

1. Mariño-Enriquez A, et al: Am J Surg Pathol. 2017;41(2):234-244.
2. Chen BJ, et L: Am J Surg Pathol. 2012;36(8):1119-28.
3. Subhawong AP, et al: Am J Surg Pathol. 2009;33(2):163-75.



Z2800RL/ Z2800RS/ Z2800RT/ Z2800RP (1.0ml Concentrate/ 0.5ml Con./ 0.1ml Con./ 7ml Pre-dil)



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(research  
use only)



(lot number)



(catalogue  
number)



(expiry date)



(temperature  
limit)



(consult  
Instructions  
for Use)