

# B Cell Clonality Cocktail (ZR472+LcN2)

## Rabbit & Mouse Monoclonal Antibody Cocktail

**Host:** Rabbit & Mouse  
**Specificity:** Human  
**Immunogen:** Synthesized human Kappa & Lambda protein  
**Ig Class:** IgG + IgG2a/k  
**Storage:** When stored at 2-8°C, this antibody cocktail is stable for 18 months.

**Specifications:** B Cell Clonality Cocktail (ZR472+LcN2) Rabbit & Mouse Monoclonal Primary Antibody Cocktail detects Kappa & Lambda 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 Kappa and Lambda protein.

**Localization:** Cytoplasmic.

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

Description: B cells are a type of white blood cell that plays a key role in the immune system by producing antibodies. Clonality refers to the process where a single B cell undergoes division to produce a population of identical cells- plasma cells, which produce monoclonal immunoglobulin with either kappa or lambda light chain. In normal lymphoid tissue, the kappa and lambda cell ratio are approximately 0.3-1.7. In the hematological diseases, such as B-cell lymphomas or B-cell leukemias, there is presence of abnormal monoclonal B cell population with either kappa light chain (>1.7) or lambda light chain (<0.3) predominance. With AP-labeled kappa (ZR471) (red) and HRP labeled lambda (LcN2) (brown) paraffin immunohistochemistry, the B cell/plasma cell clonality can be established.

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

### References:

1. Terry J, et al. Am J Surg Pathol. 2010; 34:1805-11. 2.
2. Signoretti S, et al. Am J Pathol. 2000; 157:1769-75.
3. Angus B, et al. J Pathol. 1987; 155:377-84. 2.
4. Moll R, et al. Histochem Cell Biol. 2008; 129:705-33.

**REF** Z2837MRP-R (7ml Pre-dil)



605 E. Huntington Dr.,  
Suite 204  
Monrovia, CA 91016  
Tel: (626) 355-2053  
<http://www.zeta-corp.com>



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