

# Oct-2 (Clone ZM90)

## Mouse Monoclonal Antibody

**Specificity:** Human. Others not known

**Immunogen:** Recombinant human OCT2 protein fragment (around aa 112-297)

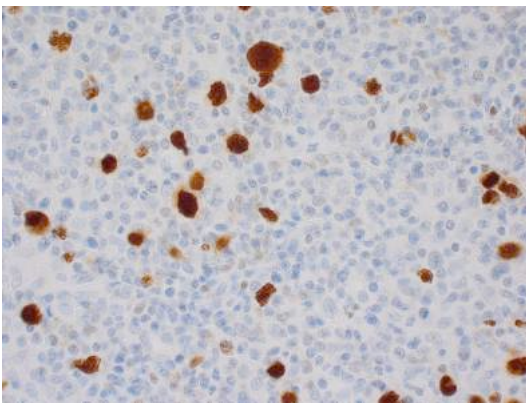
**Ig Class:** IgG1/ $\kappa$

**Storage:** Store vial at 4°C. When stored at 2-8°C, this antibody is stable for 24 months

**Staining procedures:** Use formalin-fixed and paraffin-embedded sections. *Retrieval conditions:* Pretreatment of deparaffinized tissue with heat-induced epitope retrieval is recommended. *Detection methods:* Polymer anti-mouse/rabbit Ig detection system. *Working dilution:* 1:100-200; *Positive Control:* B-cell lymphoma. *Cellular Localization:* Nuclear. *Intended use:* In vitro diagnosis (IVD).

**Description:** Oct-2 is a transcription factor of the POU homeo-domain family that binds to the Ig gene octamer sites, regulating B-cell-specific genes. Oct-2 expression can be used as a marker of B-cell lineage and differentiation. Germinal center B-cells, mantle B-cells, monocytoid B-cells, and plasma cells show high level expression of Oct-2. Additionally, mantle cell lymphoma, follicular lymphoma, marginal zone lymphoma, plasmacytoma, Burkitt lymphoma, diffuse large cell lymphoma, diffuse large B-cell lymphoma, Hodgkin lymphoma display increased expression of Oct-2. Several studies of Oct-2 expression have shown a low level expression in pre-B, T-cell, myelomonocytic, and epithelial cell lines, whereas all mature B-cell lines have high levels of expression. In spite of scanty evidence for Oct-2 expression in T cells, it is believed that this factor participates in transcriptional regulation during T-cell activation.

**Supplied As:** Purified antibody in 0.2% BSA and 15mM sodium azide.



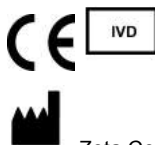
### References:

1. Browne P, et al. *Am J Clin Pathol.* 2003; 120:767-77.
2. García-Cosío M, et al. *Mod Pathol.* 2004; 17:1531-8.
3. Gibson SE, et al. *Am J Clin Pathol.* 2006; 126:916-24.

*Formalin-fixed, paraffin-embedded human T-cell/histiocyte rich B-cell lymphoma stained with anti-Oct-2 antibody using peroxidase-conjugate and DAB chromogen. Note nuclear staining of lymphoma cells*

**Cat. #Z2400 (1.0 ml)**

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