

**Mouse Anti-OCT2 [Oct2/2136]: MC0297, MC0297RTU7**

**Intended Use:** For Research Use Only

**Description:** Octamer transcription factor-2 (OCT-2) possesses a leucine zipper domain and belongs to the POU family of transcription factors. It specifically binds to the octamer motif (5-ATTTTCAT-3), activates immunoglobulin gene expression and regulates transcription in a number of tissues. OCT-2 is important for the expression of B cell specific genes, such as CD20 and CRISP-3. OCT-2 is expressed in mature B cells, predominantly germinal center B cells. Low expression of OCT-2 has been found in immature B cells, T cells and myelomonocytic cells. OCT-2 reactivity in epithelial cells and neuronal cells has also been reported. The OCT-2 antibody labels various B cell lymphomas with strong expression in germinal center-derived lymphomas. In a study on Hodgkin's lymphoma (HL), OCT-2 positivity has been observed in 15 out of 15 lymphocyte predominance HLs, but none of the 29 classic HLs.

**Specifications**

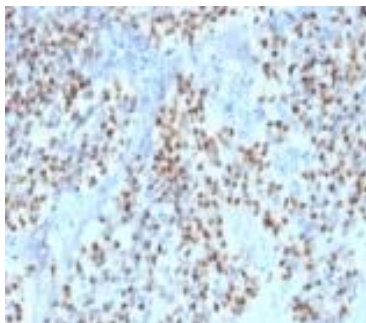
Clone: Oct2/2136  
 Source: Mouse  
 Isotype: IgG1k  
 Reactivity: Human  
 Localization: Nucleus  
 Formulation: Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)  
 Storage: Store at 2°- 8°C  
 Applications: IHC  
 Package:

Description	Catalog No.	Size
OCT2 Concentrated	MC0297	1 ml
OCT2 Prediluted	MC0297RTU7	7 ml

**IHC Procedure\***

Positive Control Tissue: B-cell lymphoma  
 Concentrated Dilution: 50-200  
 Pretreatment: Tris EDTA pH8.0, 15 minutes Pressure Cooker or 30-60 minutes water bath at 95°-99°C  
 Incubation Time and Temp: 30-60 minutes @ RT  
 Detection: Refer to the detection system manual

\* Result should be confirmed by an established diagnostic procedure.



FFPE human lymph node stained with anti-OCT2 using DAB

**References:**

1. Omeprazole protects against cisplatin-induced nephrotoxicity by alleviating oxidative stress, inflammation, and transporter-mediated cisplatin accumulation in rats and HK-2 cells. Gao H, et al. Chem Biol Interact 297:130-140, 2019.
2. Ubiquitin-Specific Protease 2 Modulates the Lipopolysaccharide-Elicited Expression of Proinflammatory Cytokines in Macrophage-like HL-60 Cells. Kitamura H, et al. Mediators Inflamm 2017:6909415, 2017.
3. Different effect of testosterone and oestrogen on urinary excretion of metformin via regulating OCTs and MATEs expression in the kidney of mice. He R, et al. J Cell Mol Med 20:2309-2317, 2016.