

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-ATTCAT-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

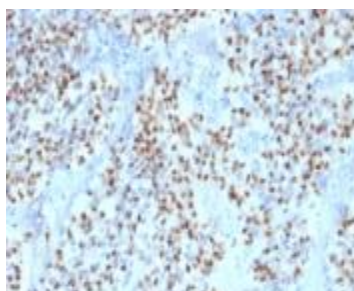
Clone: Oct2/2136
 Source: Mouse
 Isotype: IgG1k
 Reactivity: Human
 Localization: Nucleus
 Formulation: Antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN₃)
 Storage: Store at 2°- 8°C
 Applications: IHC
 Package:

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 using Pressure Cooker, or 30-60 minutes using 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-Oct-2 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.

Doc. 100-MC0297
Rev. A

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