

Rabbit Anti-OCT2 [MD253R]: RM0147, RM0147RTU7

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

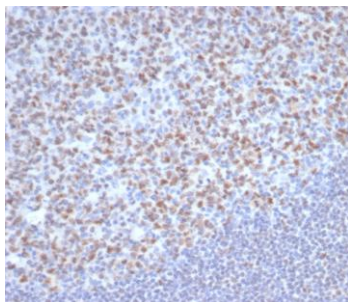
Clone: MD253R
 Source: Rabbit
 Isotype: IgG
 Reactivity: Human
 Immunogen: Recombinant fragment of human OCT2 protein aa 100-300
 Localization: Nucleus
 Formulation: Antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN₃)
 Storage: Store at 2°- 8°C
 Applications: IHC
 Package:

Description	Catalog No.	Size
OCT2 Concentrated	RM0147	1 ml
OCT2 Prediluted	RM0147RTU7	7 ml

IHC Procedure*

Positive Control Tissue: B-cell lymphoma, tonsil
 Concentrated Dilution: 50-200
 Pretreatment: Tris EDTA pH9.0, 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 tonsil stained with anti-OCT2 using DAB

References:

1. Epigenetic activation of the drug transporter OCT2 sensitizes renal cell carcinoma to oxaliplatin. Liu Y et al. Sci Transl Med. 2016.
2. Oct2 and Bob1 are sensitive and specific markers in lineage determination of B cell lymphomas with no expression of conventional B cell markers. Yin L et al. Histopathology. 2016.
3. Immunohistochemical localization of OCT2 in the cochlea of various species. Hellberg V et al. Laryngoscope. 2015.