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DATA SHEET

Mouse Anti-NELL1 [6A8]: MC0333

Intended Use: For Research Use Only

Description: NELL1 (neural epidermal growth factor-like 1 protein) is an 89 kDa member of the EGF-like domain containing family. When secreted, NELL1 exists as a phosphoglycoprotein that can add as much as 50 kDa to the calculated MW. NELL1 has restricted expression, being limited to pre-B cells and osteoblasts, where it apparently promotes osteoblast maturation and bone formation. In tumors, it is found in neuroblastoma-derived cells. NELL1 is both secreted and retained intracellularly where it is phosphorylated by PKC. Primary membranous nephropathy is an autoimmune disease of the kidney where antibodies target an antigen in the glomerular basement membrane resulting in kidney damage or failure. PLA2R and THSD7A are target antigens in 70% and 1-5% of primary membranous nephropathy cases, respectively. Recently NELL1 was identified as another target antigen in the remaining cases.

Specifications:

Clone:	6A8
Source:	Mouse
Isotype:	IgG2a/κ
Reactivity:	Human
Immunogen:	Recombinant NELL1protein with GST tag
Localization:	Cytoplasm
Formulation:	Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
Storage:	Store at 2°- 8°C
Applications:	IHC, ICC/IF, WB

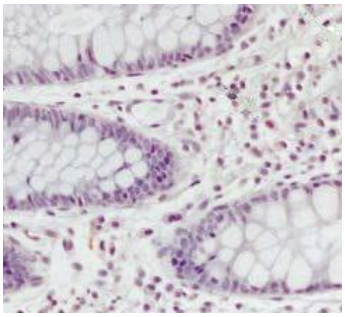
Package:

Description	Catalog No.	Size
NELL1 [6A8] Concentrated	MC0333	1 ml

IHC Procedure*:

Positive Control Tissue:	Kidney, liver, colon
Concentrated Dilution:	20-200
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 at RT
Detection:	Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human colon stained with anti-NELL1 using DAB

References:

1. Characteristics and Outcomes of NELL1 Membranous Nephropathy in Lipoic Acid Users and Nonusers. Avasare RS, et al. Kidney Int Rep., Feb 24; 9(5):1379-1386, 2024.
2. NELL1-Associated Membranous Glomerulopathy After Hematopoietic Stem Cell Transplantation. Kudose S, et al. Kidney Int Rep., May 4; 6(7):1992-1995, 2021.
3. Expression and regulatory effects on cancer cell behavior of NELL1 and NELL2 in human renal cell carcinoma. Nakamura R, et al. Cancer Sci., May; 106(5):656-664, 2015.

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