

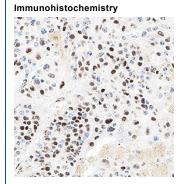
# **Human POU2F3 Antibody**

Monoclonal Mouse IgG<sub>2A</sub> Clone # 1091214 Catalog Number: MAB11625

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects a synthetic peptide specific for human POU2F3 around amino acid 100 in Direct ELISA.
Source	Monoclonal Mouse IgG <sub>2A</sub> Clone # 1091214
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Synthetic Peptide Accession # Q9UKI9
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.

APPLICATIONS		
Please Note: Optimal dilutions should be determined by each la	boratory for each application. General Protocols are available in the Techni	ical Information section on our website.
	Recommended Concentration	Sample
Immunohistochemistry	3-25 μg/mL	Immersion fixed paraffin-embedded sections of human melanoma

## DATA



Detection of POU2F3 in Human Melanoma. POU2F3 was detected in immersion fixed paraffin-embedded sections of human melanoma using Mouse Anti-Human POU2F3 Monoclonal Antibody (Catalog # MAB11625) at 5  $\mu$ g/ml for 1 hour at room temperature followed by incubation with the Anti-Mouse IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC001). Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using VisUCyte Antigen Retrieval Reagent-Basic (Catalog # VCTS021). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to the nucleus. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.

Reconstitution	Reconstitute lyophilized material at 0.2 mg/ml in sterile PBS. For liquid material, refer to CoA for concentration.	
Shipping	Lyophilized product is shipped at ambient temperature. Liquid small pack size (-SP) is shipped with polar packs. Upon receipt, store immediately at the temperature recommended below.	
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.  12 months from date of receipt, -20 to -70 °C as supplied.  1 month, 2 to 8 °C under sterile conditions after reconstitution.  6 months, -20 to -70 °C under sterile conditions after reconstitution.	

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### **BACKGROUND**

POU2F3 is a 47 kDa transcription factor involved in the regulation of the differentiation of keratinocytes. It is also a part of the POU2F3-POU2AF2/POU2AF3 complex that drives the expression of tuft-cell-specific genes. Normal and neoplastic tuft cells share a genetic requirement for POU2F3. POU2F3 is utilized as an ancillary marker for the diagnosis of neuroendocrine-low small cell lung cancer. It is also positive in mesenchymal and neuroectodermal tumors including synovial carcinoma, solitary fibrous tumor, glioblastoma, Wilms tumor and melanoma.

#### References:

- 1. Hildesheim J, Kühn U, Yee CL, Foster RA, Yancey KB, Vogel JC. The hSkn-1a POU transcription factor enhances epidermal stratification by promoting keratinocyte proliferation. J Cell Sci. 2001 May;114(Pt 10):1913-23. doi: 10.1242/jcs.114.10.1913. PMID: 11329378.
- 2. Wu XS, He XY, Ipsaro JJ, Huang YH, Preall JB, Ng D, Shue YT, Sage J, Egeblad M, Joshua-Tor L, Vakoc CR. OCA-T1 and OCA-T2 are coactivators of POU2F3 in the tuft cell lineage. Nature. 2022 Jul;607(7917):169-175. doi: 10.1038/s41586-022-04842-7. Epub 2022 May 16. PMID: 35576971; PMCID: PMC9419707
- 3. Kaczorowski M, Ylaya K, Chłopek M, Lasota J, Miettinen M. Expression of POU2F3 Transcription Factor and POU2F3. POU2F3 Coactivator, in Tuft Cell-like Carcinoma and Other Tumors. Am J Surg Pathol. 2024 Sep 25. doi: 10.1097/PAS.000000000002313. Epub ahead of print. PMID: 39319626.