Human POU3F2 Antibody

Monoclonal Mouse IgG_{2A} Clone # 761340

Catalog Number: MAB7427

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human POU3F2 in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human (rh) POU5F1 or rhPOU4F3 is observed.
Source	Monoclonal Mouse IgG_{2A} Clone # 761340
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human POU3F2 Asn7-His59 Accession # P20265
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

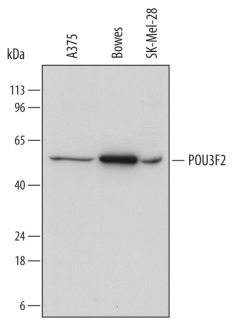
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below

DATA

Western Blot



Detection of Human POU3F2 by Western Blot. Western blot shows lysates of A375 human melanoma cell line, Bowes human melanoma cell line, and SK-Mel-28 human malignant melanoma cell line. PVDF membrane was probed with 1 µg/mL of Mouse Anti-Human POU3F2 Monoclonal Antibody (Catalog # MAB7427) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for POU3F2 at approximately 47 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
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.

BACKGROUND

POU3F2, also called Brn2, is a 47 kDa (predicted) member of the Octamer-binding transcription factor family. It is mainly expressed in the brain, especially in neuroectodermal cell lineages. With transcription factors ASCL1/Mash1 and Myt1L, POU3F2 has been used to induce neuronal differentiation of human stem cells and mouse fibroblasts. The full length transcript of POU3F2 produces the transcription factor N-Oct3, while alternate transcription initiation at amino acids 181 and 200 produce N-Oct5A and N-Oct5B isoforms, respectively. The sequence used as an immunogen is present only in N-Oct3 and is identical in human and mouse, while rat POU3F2 shows one amino acid difference.

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