

DESCRIPTION

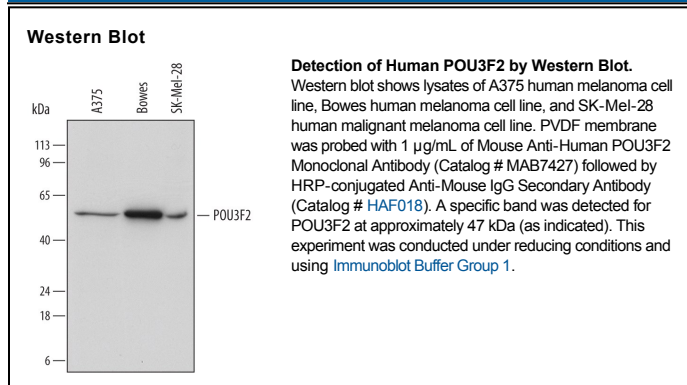
Species Reactivity	Human
Specificity	Detects human POU3F2 in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human (rh) POU5F1 or rhPOU4F3 is observed.
Source	Monoclonal Mouse IgG _{2A} Clone # 761340
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -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 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



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. <ul style="list-style-type: none"> ● 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.