

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
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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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