

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects human POU3F2 in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human (rh) POU5F1 or rhPOU4F3 is observed.                                                                                                                  |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>2A</sub> Clone # 761340                                                                                                                                                                                                                           |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant human POU3F2<br>Asn7-His59<br>Accession # P20265                                                                                                                                                                                        |
| <b>Conjugate</b>          | Alexa Fluor 488<br>Excitation Wavelength: 488 nm<br>Emission Wavelength: 515-545 nm                                                                                                                                                                                         |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*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.

## PRODUCT SPECIFIC NOTICES

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