

POU3F2 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP16803c**Specification**

POU3F2 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [P20265](#)**POU3F2 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 5454**Other Names**

POU domain, class 3, transcription factor 2, Brain-specific homeobox/POU domain protein 2, Brain-2, Brn-2, Nervous system-specific octamer-binding transcription factor N-Oct-3, Octamer-binding protein 7, Oct-7, Octamer-binding transcription factor 7, OTF-7, POU3F2, BRN2, OCT7, OTF7

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

POU3F2 Antibody (Center) Blocking Peptide - Protein Information**Name** POU3F2**Synonyms** BRN2, OCT7, OTF7**Function**

Transcription factor that plays a key role in neuronal differentiation (By similarity). Binds preferentially to the recognition sequence which consists of two distinct half-sites, ('GCAT') and ('TAAT'), separated by a non-conserved spacer region of 0, 2, or 3 nucleotides (By similarity). Acts as a transcriptional activator when binding cooperatively with SOX4, SOX11, or SOX12 to gene promoters (By similarity). The combination of three transcription factors, ASCL1, POU3F2/BRN2 and MYT1L, is sufficient to reprogram fibroblasts and other somatic cells into induced neuronal (iN) cells in vitro (By similarity). Acts downstream of ASCL1, accessing chromatin that has been opened by ASCL1, and promotes transcription of neuronal genes (By similarity).

Cellular Location

Nucleus.

Tissue Location

Expressed specifically in the neuroectodermal cell lineage

POU3F2 Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

POU3F2 Antibody (Center) Blocking Peptide - Images

POU3F2 Antibody (Center) Blocking Peptide - Background

POU3F2 belongs to a large family of transcription factors that bind to the octameric DNA sequence ATGCAAAT. Most of these proteins share a highly homologous region, referred to as the POU domain, that occurs in several mammalian transcription factors, including the octamer-binding proteins Oct1 (POU2F1; MIM 164175) and Oct2 (POU2F2; MIM 164176) and the pituitary protein Pit1 (PIT1; MIM 173110). Class III POU genes are expressed predominantly in the central nervous system (CNS). It is likely that CNS-specific transcription factors such as these play an important role in mammalian neurogenesis by regulating their diverse patterns of gene expression (Schreiber et al., 1993 [PubMed 8441633]; Atanasoski et al., 1995 [PubMed 7601453]).

POU3F2 Antibody (Center) Blocking Peptide - References

Kobi, D., et al. Pigment Cell Melanoma Res 23(3):404-418(2010) Flammiger, A., et al. J. Invest. Dermatol. 129(4):945-953(2009) Cabos-Siguier, B., et al. Protein Expr. Purif. 64(1):39-46(2009) Lowe, J.K., et al. PLoS Genet. 5 (2), E1000365 (2009) :Potkin, S.G., et al. Schizophr Bull 35(1):96-108(2009)