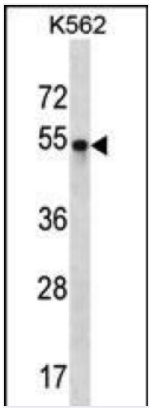
POU3F2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	POU3F2, Polyclonal Antibody
Full Product Name	POU3F2, ID (POU3F2, BRN2, OCT7, OTF7, POU domain, class 3, transcription factor 2, Brain-specific homeobox/POU domain protein 2, Nervous system-specific octamer-binding transcription factor N-Oct-3, Octamer-binding protein 7, Octamer-binding transcription
Product Gene Name	anti-POU3F2 antibody
Product Synonym Names	POU3F2; BRN2; OCT7; OTF7; POU domain; class 3; transcription factor 2; Brain-specific homeobox/POU domain protein 2; Nervous system-specific octamer-binding transcription factor N-Oct-3; Octamer-binding protein 7; Octamer-binding transcription factor 7
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Protein A Affinity Chromatography
Specificity	Recognizes human POU3F2.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	26,841 Da
OMIM	600494
3D Structure	ModBase 3D Structure for P20265
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 199-226 in the central region of human POU3F2, UniProt Accession #P20265. Species sequence homology: mouse and rat
Conjugate	FITC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-POU3F2 antibody	Antibodies; Transcription Factors; Zinc; Ring; Homeobox
Applications Tested/Suitable for anti-POU3F2 antibody	Western Blot (WB), FLISA
Application Notes for anti-POU3F2 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.

Related Product Information for anti-POU3F2 antibody	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]).
Product References and Citations for anti-POU3F2 antibody	1. Kobi, D., et al. Pigment Cell Melanoma Res 23(3):404-418(2010). 2. Flammiger, A., et al. J. Invest. Dermatol. 129(4):945-953(2009). 3. Cabos-Siguier, B., et al. Protein Expr. Purif. 64(1):39-46(2009). 4. Lowe, J.K., et al. PLoS Genet. 5 (2), E1000365 (2009). 5. Potkin, S.G., et al. Schizophr Bull 35(1):96-108(2009).
Other Notes	Small volumes of anti-POU3F2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for POU3F2 purchase	MBS6336008 is an antibody targeting POU3F2. Also known as POU3F2, ID (POU3F2, BRN2, OCT7, OTF7, POU domain, class 3, transcription factor 2, Brain-specific homeobox/POU domain protein 2, Nervous system-specific octamer-binding transcription factor N-Oct-3, Octamer-binding protein 7, Octamer-binding transcription. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-POU3F2 antibody
Western Blot analysis of MBS6011158 in K562 cell line lysates (35ug/lane). This demonstrates the POU3F2 antibody detected the POU3F2 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for POU3F2. It may not necessarily be applicable to this product.

NCBI GI #	51702521
NCBI GeneID	5454
NCBI Accession #	NP_005595.2
UniProt Primary Accession #	P20265
UniProt Secondary Accession #	Q14960; Q86V54; Q9UJL0
UniProt Related Accession #	P20265
GenBank Nucleotide #	NM_005604.3
NCBI Official Full Name	POU domain, class 3, transcription factor 2
NCBI Official Synonym Full Names	POU class 3 homeobox 2
NCBI Official Symbol	POU3F2
NCBI Official Synonym Symbols	BRN2; OCT7; OTF7; OTF-7; POUF3; brn-2; oct-7; N-Oct3
UniProt Protein Name	POU domain, class 3, transcription factor 2

UniProt Synonym Protein Names	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
Protein Family	POU domain, class 3, transcription factor
UniProt Gene Name	POU3F2
UniProt Synonym Gene Names	BRN2; OCT7; OTF7; Brain-2; Brn-2; Oct-7; OTF-7
UniProt Entry Name	PO3F2_HUMAN
NCBI Protein Information	POU domain, class 3, transcription factor 2; brain-2; octamer-binding protein 7; octamer-binding transcription factor 7; brain-specific homeobox/POU domain protein 2; nervous system-specific octamer-binding transcription factor N-Oct-3
NCBI Summary for POU3F2	This gene encodes a member of the POU-III class of neural transcription factors. The encoded protein is involved in neuronal differentiation and enhances the activation of corticotropin-releasing hormone regulated genes. Overexpression of this protein is associated with an increase in the proliferation of melanoma cells. [provided by RefSeq, Mar 2012]
UniProt Comments for POU3F2	Oct7: Transcription factor that binds preferentially to the recognition sequence which consists of two distinct half-sites, ('GCAT') and ('TAAT'), separated by a nonconserved spacer region of 0, 2, or 3 nucleotides. Positively regulates the genes under the control of corticotropin-releasing hormone (CRH) and CRH II promoters. Interacts with PQBP1. Expressed specifically in the neuroectodermal cell lineage. Belongs to the POU transcription factor family. Class- 3 subfamily. 3 isoforms of the human protein are produced by alternative initiation. Protein type: Transcription factor; Motility/polarity/chemotaxis; DNA-binding Chromosomal Location of Human Ortholog: 6q16 Cellular Component: transcription factor complex; nucleus Molecular Function: identical protein binding; protein binding; sequence-specific DNA binding; transcription factor activity Biological Process: epidermis development; transcription, DNA-dependent; positive regulation of multicellular organism growth; hypothalamus cell differentiation; regulation of axonogenesis; astrocyte development; myelination in the peripheral nervous system; neuron differentiation; neurohypophysis development; positive regulation of cell proliferation; cerebral cortex radially oriented cell migration; positive regulation of transcription from RNA polymerase II promoter; forebrain ventricular zone progenitor cell division
Research Articles on POU3F2	**1.** BRN2 is a higher level regulator than ASCL1 and ND1 and BRN2 might be involved in aggressiveness of small cell lung cancer.
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