POU1F1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	POU1F1, Polyclonal Antibody
Full Product Name	POU1F1 Polyclonal Conjugated Antibody
Product Gene Name	anti-POU1F1 antibody
Product Synonym Names	POU1F1 Conjugated Antibody; PIT1; CPHD1; GHF-1; Pit-1; POU1F1a
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Purity/Purification	Affinity purification
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	35,669 Da
OMIM	L18781 mRNA
3D Structure	ModBase 3D Structure for P28069
Immunogen	Recombinant protein of human POU1F1.
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-POU1F1 antibody	Most Applications
Application Notes for anti-POU1F1 antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-POU1F1 antibody	This gene encodes a member of the POU family of transcription factors that regulate mammalian development. The protein regulates expression of several genes involved in pituitary development and hormone expression. Mutations in this genes result in combined pituitary hormone deficiency. Multiple transcript variants encoding different isoforms have been found for this gene.
Other Notes	Small volumes of anti-POU1F1 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 POU1F1 purchase	MBS9441418 is an antibody targeting POU1F1. Also known as POU1F1 Polyclonal Conjugated Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for POU1F1. It may not necessarily be applicable to this product.

NCBI GI #	4505955
NCBI GeneID	5449
NCBI Accession #	NP_000297.1
UniProt Primary Accession #	P28069
UniProt Secondary Accession #	O75757; Q15132; Q15133; Q9UD34; Q9UEL3
UniProt Related Accession #	P28069
GenBank Nucleotide #	NM_000306.3
NCBI Official Full Name	pituitary-specific positive transcription factor 1 isoform alpha
NCBI Official Synonym Full Names	POU class 1 homeobox 1
NCBI Official Symbol	POU1F1
NCBI Official Synonym Symbols	PIT1; CPHD1; GHF-1; Pit-1; POU1F1a
UniProt Protein Name	Pituitary-specific positive transcription factor 1
UniProt Synonym Protein Names	Growth hormone factor 1; GHF-1
Protein Family	Pituitary-specific positive transcription factor
UniProt Gene Name	POU1F1
UniProt Synonym Gene Names	GHF1; PIT1; PIT-1; GHF-1
NCBI Protein Information	pituitary-specific positive transcription factor 1
UniProt Comments for POU1F1	GHF-1: Transcription factor involved in the specification of the lactotrope, somatotrope, and thyrotrope phenotypes in the developing anterior pituitary. Activates growth hormone and prolactin genes. Specifically binds to the consensus sequence 5'- TAAAT-3'. Belongs to the POU transcription factor family. Class- 1 subfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: DNA-binding; Transcription factor Chromosomal Location of Human Ortholog: 3p11.2 Cellular Component: nucleus; transcription factor complex Molecular Function: chromatin binding; DNA binding transcription factor activity; transcription corepressor activity Biological Process: B cell differentiation; cell fate specification; determination of adult lifespan; negative regulation of cell proliferation; negative regulation of transcription from RNA polymerase II promoter; nuclear transport; positive regulation of cell proliferation; positive regulation of inositol trisphosphate biosynthetic process; positive regulation of multicellular organism growth; positive regulation of transcription from RNA polymerase II promoter; positive regulation of transcription, DNA-templated; regulation of insulin-like growth factor receptor signaling pathway; regulation of transcription, DNA-templated; somatotropin secreting cell development; transcription from RNA polymerase II promoter Disease: Pituitary Hormone Deficiency, Combined, 1
Research Articles on POU1F1	**1.** This result strongly suggests the possibility, for the first time, that isolated mutations in the short isoform of POU1F1 could be sufficient for induction of POU1F1-related combined pituitary hormone deficiency.
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