



Human POU5F1 blocking peptide (DAG-P1850)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	This gene encodes a transcription factor containing a POU homeodomain that plays a key role in embryonic development and stem cell pluripotency. Aberrant expression of this gene in adult tissues is associated with tumorigenesis. This gene can participate in a translocation with the Ewings sarcoma gene on chromosome 21, which also leads to tumor formation. Alternative splicing, as well as usage of alternative AUG and non-AUG translation initiation codons, results in multiple isoforms. One of the AUG start codons is polymorphic in human populations. Related pseudogenes have been identified on chromosomes 1, 3, 8, 10, and 12. [provided by RefSeq, Oct 2013]
Specificity	Expressed in developing brain. Highest levels found in specific cell layers of the cortex, the olfactory bulb, the hippocampus and the cerebellum. Low levels of expression in adult tissues.
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Applications	BL
Sequence Similarities	Belongs to the POU transcription factor family. Class-5 subfamily. Contains 1 homeobox DNA-binding domain. Contains 1 POU-specific domain.
Format	Liquid
Buffer	Information available upon request.
Preservative	None
Storage	Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle. Information available upon request.

GENE INFORMATION

Gene Name	POU5F1 POU class 5 homeobox 1 [Homo sapiens (human)]
Official Symbol	POU5F1
Synonyms	POU5F1; POU class 5 homeobox 1; OCT3; OCT4; OTF3; OTF4; OTF-3; Oct-3; Oct-4; POU domain, class 5, transcription factor 1; octamer-binding protein 3; octamer-binding protein 4; POU domain transcription factor OCT4; octamer-binding transcription factor 3; POU-type homeodomain-containing DNA-binding protein;
Entrez Gene ID	5460
mRNA Refseq	NM_001173531.2
Protein Refseq	NP_001167002.1
UniProt ID	M1S623
Chromosome Location	6p21.31
Pathway	Cardiac Progenitor Differentiation, organism-specific biosystem; HIF-2-alpha transcription factor network, organism-specific biosystem; SIDS Susceptibility Pathways, organism-specific biosystem; Wnt Signaling Pathway and Pluripotency, organism-specific biosystem;
Function	DNA binding; miRNA binding; poly(A) RNA binding; protein binding; sequence-specific DNA binding; sequence-specific DNA binding RNA polymerase II transcription factor activity; sequence-specific DNA binding transcription factor activity; transcription fact