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Product datasheet for TP762703

Oct4 (POU5F1) (NM_002701) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human POU class 5 homeobox 1 (POU5F1/OCT4), transcript variant 1, 1Met-160Leu, with N-terminal His tag, expressed in E.coli, 50ug
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	A DNA sequence encoding the region (1Met-160Leu) of OCT4
Tag:	N-His
Predicted MW:	18.6 kDa
Concentration:	>0.05 ug/ul as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25mM Tris, 150mM NaCl, 10% glycerol, pH8.0, 1% SKL
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for at least 1 year from receipt of products under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_002692
Locus ID:	5460
UniProt ID:	Q01860, D2IYK3
RefSeq Size:	1417
Cytogenetics:	6p21.33
RefSeq ORF:	1080
Synonyms:	Oct-3; Oct-4; OCT3; OCT4; OTF-3; OTF3; OTF4

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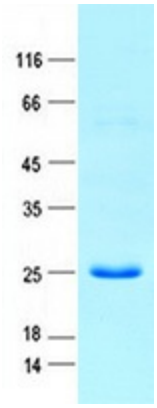
Summary: This gene encodes a transcription factor containing a POU homeodomain that plays a key role in embryonic development and stem cell pluripotency. Aberrant expression of this gene in adult tissues is associated with tumorigenesis. This gene can participate in a translocation with the Ewing's sarcoma 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]

Protein Families: Adult stem cells, Cancer stem cells, Embryonic stem cells, Induced pluripotent stem cells, Stem cell - Pluripotency, Transcription Factors

Product images:



Coomassie blue staining of purified OCT4 protein (Cat #TP762703). The protein was produced from E.coli.