

Oct-3/4 rabbit pAb**Cat#: orb765878 (Manual)**

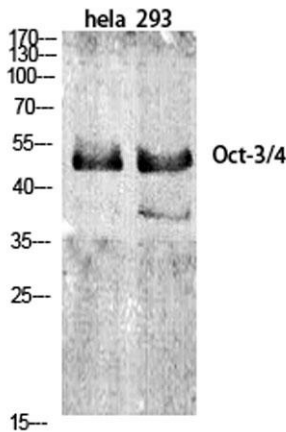
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Product Name	Oct-3/4 rabbit pAb
Host species	Rabbit
Applications	WB;IHC;IF;ELISA
Species Cross-Reactivity	Human;Mouse;Rat
Recommended dilutions	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/10000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized peptide derived from human OCT3. AA range:191-240
Specificity	Oct-3/4 Polyclonal Antibody detects endogenous levels of Oct-3/4 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	POU domain class 5 transcription factor 1
Gene Name	POU5F1
Cellular localization	Cytoplasm. Nucleus. Expressed in a diffuse and slightly punctuate pattern. Colocalizes with MAPK8 and MAPK9 in the nucleus. .
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal

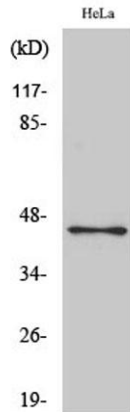
Concentration	1 mg/ml
Observed band	50kD
Human Gene ID	5460
Human Swiss-Prot Number	Q01860
Alternative Names	POU5F1; OCT3; OCT4; OTF3; POU domain, class 5, transcription factor 1; Octamer-binding protein 3; Oct-3; Octamer-binding protein 4; Oct-4; Octamer-binding transcription factor 3; OTF-3

Background

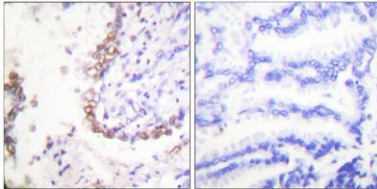
This gene encodes a transcription factor containing a POU homeodomain that plays a key role in embryonic development and stem cell pluripotency. Aberrant expression of this gene in adult tissues is associated with tumorigenesis. This gene can participate in a translocation with the Ewing's sarcoma gene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



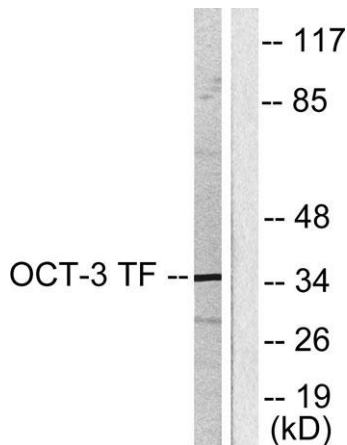
Western Blot analysis of various cells using Oct-3/4 Polyclonal Antibody diluted at 1:1000



Western Blot analysis of HeLa cells using Oct-3/4 Polyclonal Antibody diluted at 1:1000



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma tissue, using OCT3 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from HeLa cells, using OCT3 Antibody. The lane on the right is blocked with the synthesized peptide.