

Product datasheet for **AP23147PU-N**

Oct4 (POU5F1) (6-152) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	FC, IF, IHC, WB
Recommended Dilution:	Flow Cytometry. Immunocytochemistry: 1/100 - 1/200. Immunofluorescence: 1/100 - 1/200. Immunohistochemistry on Paraffin Sections: 10 µg/ml. Western Blot: 1/500 - 1/3000.
Reactivity:	Bovine, Human, Monkey, Porcine, Rabbit
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Recombinant protein fragment containing a sequence corresponding to a region within amino acids 6 and 152 of OCT3/4
Specificity:	This antibody detects OCT3/4 at aa 6-152.
Formulation:	PBS, pH 7, 10% Glycerol, 0.01% Thimerosal State: Aff - Purified State: Liquid Ig fraction
Concentration:	lot specific
Purification:	Immunoaffinity Chromatography
Conjugation:	Unconjugated
Storage:	Store (in aliquots) at -20 °C. Dilute only prior to immediate use. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	POU class 5 homeobox 1
Database Link:	Entrez Gene 5460 Human Q01860



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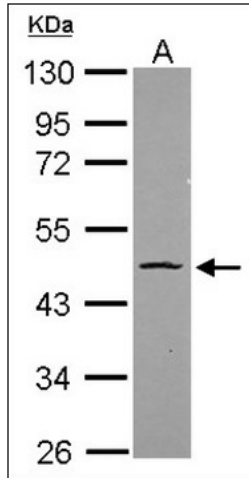
Background:

POU5F1 / OCT4 is 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.

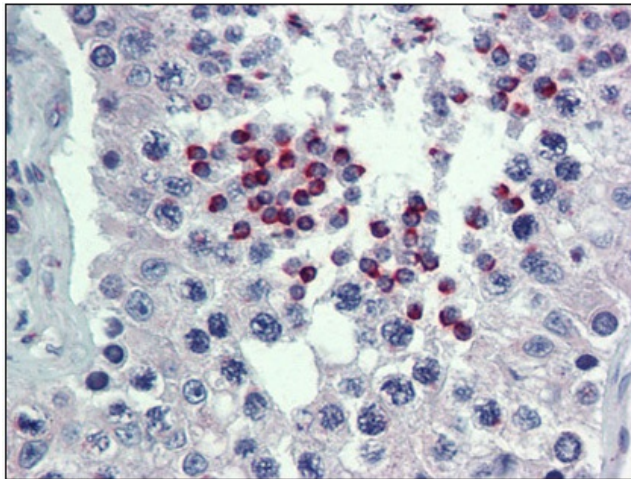
Synonyms:

POU5F1, OCT3, OCT4, OTF3, POU domain, class 5, transcription factor 1, Octamer-binding transcription factor 3, Oct-3, Oct-4

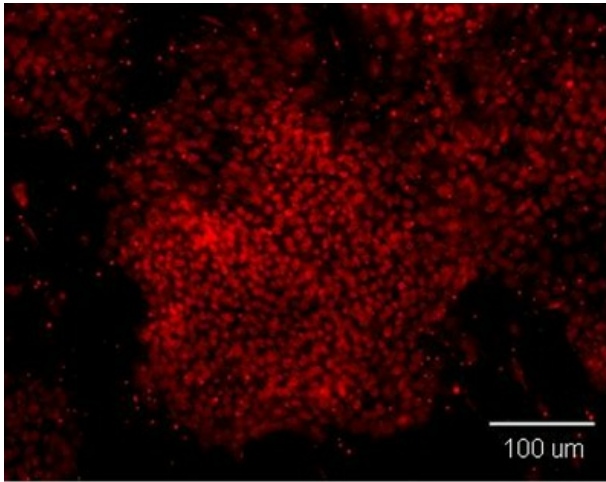
Product images:



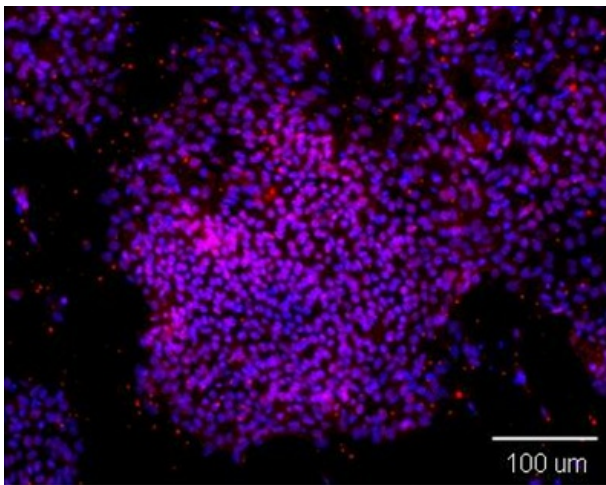
Sample (20 ug). A: HeLa nucleus. 10% SDS PAGE. POU5F1 antibody diluted at 1:1000.



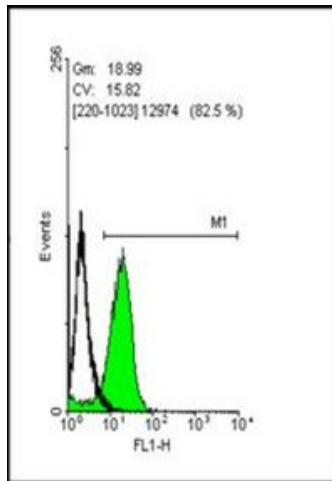
Human Testis: Formalin-Fixed, Paraffin-Embedded (FFPE)



Immunofluorescence analysis of paraformaldehyde-fixed human embryonic stem cell, using OCT3/4 antibody at 1:100 dilution.



Immunofluorescence analysis of paraformaldehyde-fixed human embryonic stem cell, using OCT3/4 antibody at 1:100 dilution, costained with DAPI.



Flow cytometry on human embryonic stem cells, staining with OCT3/4 antibody at 1:50 dilution (green) or rabbit IgG (black).