

Anti-OCT4/POU5F1 Antibody (Monoclonal, 31P08)

Catalog Number: M00174-3

About POU5F1

Oct-4 (octamer-binding transcription factor 4), also known as POU5F1 (POU domain, class 5, transcription factor 1), is a protein that in humans is encoded by the POU5F1 gene. It is mapped to 6p21.33. 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.

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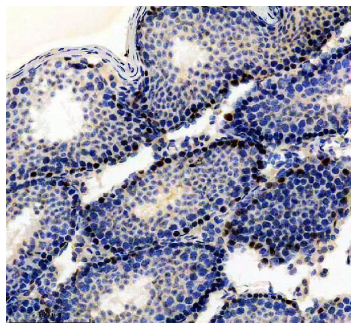
Overview

Product Name	Anti-OCT4/POU5F1 Antibody (Monoclonal, 31P08)
Reactive Species	Human, Mouse
Description	Boster Bio Anti-OCT4/POU5F1 Antibody (Monoclonal, 31P08) catalog # M00174-3. Tested in WB, IHC, IF, ICC/IF, IP, Flow Cytometry, ChIP applications. This antibody reacts with Human, Mouse.
Application	ChIP, Flow Cytometry, IP, IF, IHC, ICC, WB
Clonality	Monoclonal 31P08
Formulation	Rabbit IgG in stabilizing components, phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q01860

Technical Details

Immunogen	Synthetic peptide within human Oct4 aa 22-58.
Form	Liquid
Concentration	500 ug/ml
Purification	Protein A affinity purified.
Suggested Dilutions	Western blot, 1:500-2000 Immunohistochemistry, 1:50-200 Immunofluorescence, 1:50-200 Immunocytochemistry/Immunofluorescence, 1:50-200 ImmunoPrecipitation, 1:50 Flow Cytometry (Fixed), 1:50-200

Anti-OCT4/POU5F1 Antibody (Monoclonal, 31P08) (M00174-3) Images



IHC analysis of OCT4/POU5F1 using anti-OCT4/POU5F1 antibody (M00174-3). OCT4/POU5F1 was detected in a paraffin-embedded section of mouse testis tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-OCT4/POU5F1 Antibody (M00174-3) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

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