

OCT3/4 Recombinant Rabbit Monoclonal Antibody Product Datasheet

Catalog# BX50305

Clone# BP6282

Predicted Molecular Wt: 39kDa
Species Cross-reactivity: Human
Applications: IHC-P

Purity: ProA affinity purified IgG
Form: Liquid
Swissprot ID: Q01860

Background:

OCT-4, also known as OTF3 or POU5F1, is a member of the POU family of transcription factors, involved in the regulation of pluripotency during normal development and is detectable in embryonic stem and germ cells. It can specifically bind to the octamer motif (5'-ATTCAT-3'), and it is critical for the self-renewal of embryonic stem cells. OCT-4 is a key regulator of self-renewal in embryonic stem cells; its expression is potentially correlated with tumorigenesis and can affect some aspects of tumor behavior such as tumor recurrence or resistance to therapies.

OCT-4 is a sensitive and specific marker for germ cell tumors. It is consistently detected in carcinoma in situ/gonadoblastoma, seminomas, germinoma, dysgerminoma, and embryonal carcinoma but not in the differentiated components of nonseminomas.

An antibody to OCT-4 is useful in the identification of primary as well as metastatic germ cell tumors.

Subcellular location:

Nucleus

Recommended Method:

Heat induced epitope retrieval with Tris-EDTA buffer (pH 9.0), primary antibody incubate at RT (18°C-25°C) for 30 minutes.

Immunogen:

Synthetic peptide. This information is proprietary to Biolynx.

Storage Buffer:

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

Storage Conditions:

-25°C to -18°C

Shipment Instructions:

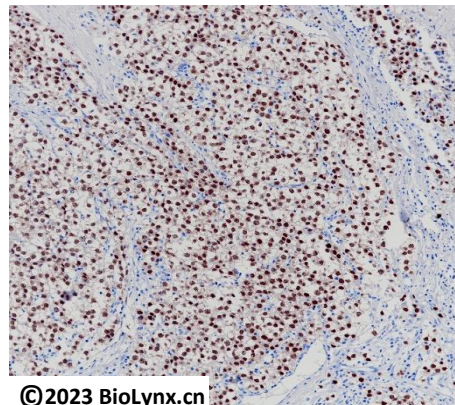
Shipped on blue ice. Upon delivery store at -25°C to -18°C. Avoid freeze / thaw cycles.

Recommended Dilution:


IHC-P: 1:100-1:200

Background References:

1. Zhang S et al. Nucleic Acids Res 47:4449-4461 (2019).
2. Chang YC et al. Cell Death Dis 11:195 (2020).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human seminoma tissue labelling OCT3/4 with BP6282.

Product QC'd by: 

For research use only. Not for use in diagnostic or therapeutic applications.