

## Anti-Oct3/4 [41B1] Bulk Size Ab03310-10.0-BT

This chimeric human antibody was made using the variable domain sequences of the original Mouse IgG2b format for improved compatibility with existing reagents assays and techniques.

**Isotype and Format:** Human IgG1, Kappa

**Clone Number:** 41B1

**Alternative Name(s) of Target:** C-10; KS20.8; POU5F1; Oct4; POU domain, class 5, transcription factor 1; 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; CGMCC NO 20779

**UniProt Accession Number of Target Protein:** Q01860

**Published Application(s):** WB, IHC

**Published Species Reactivity:** Human

**Immunogen:** The original antibody was generated by immunizing mice with recombinant protein OCT3/4.

**Specificity:** The original antibody is specific for OCT3/4. OCT3/4 is a transcription factor that binds to the octamer motif (5'-ATTTGCAT-3'). It forms a trimeric complex with SOX2 or SOX15 on DNA and controls the expression of a number of genes involved in embryonic development such as YES1, FGF4, UTF1 and ZFP206. It is critical for early embryogenesis and for embryonic stem cell pluripotency.

**Application Notes:** The antibody 41B1 and the commercial antibody C-10 were used to stain collagen tumor, dysgerminoma and testicular tissue in immunohistochemistry. Results showed the antibody specificity is comparable to the commercial antibody. Further, the staining intensity of the antibody 41B1 was higher than the commercial antibody (CN113072642A).

**Antibody First Published in:** [PMID:](#)

**Note on publication:**

## Product Form

**Size:** 1 mg Purified antibody in bulk size.

**Purification:** Protein A affinity purified

**Supplied In:** PBS only.

**Storage Recommendation:** Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20°C.

**Concentration:**

1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.