

Anti-Oct3/4 [41B1] Standard Size Ab03310-10.3

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

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, Fc Silent™, 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: 200 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. 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.