



Catalog: OM638989

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OCT-4

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☐ 100 µl

Product profile

Product name	OCT-4
Antibody Type	Primary Antibodies
Product description	Octamer transcription factor-4 (Oct-4) is a homeodomain transcription factor in the POU transcription factor family that specifically binds to the octamer motif (5'-ATTTTCAT-3') (1). It is critical for early embryogenesis and for embryonic stem cell pluripotency, expressed mainly in the developing brain (1). OCT4 is a master regulator that affects the fate of pluripotent stem cells and germ cell precursors (2). For instance, the downregulation of Oct-4 triggers embryonic stem cell differentiation, simultaneous with gastrulation (3). It is also used as a marker for germ cell tumor diagnosis (4).
Immunogen	peptide

Key Feature

Clonality	Polyclonal
Isotype	IgG
Host Species	Rabbit
Tested Applications	WB ,IHC ,FC ,IP
Species Reactivity	Human
Concentration	1 mg/mL.

Target Information

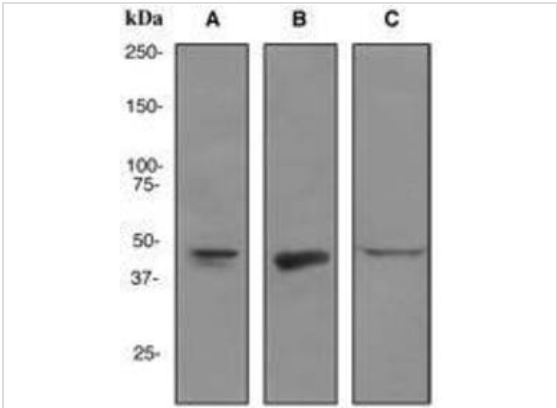
Alternative Names	Octamer binding transcription factor 4 antibody MGC22487 antibody Oct 3 antibody Oct 4 antibody Oct-3 antibody Oct-4 antibody OCT3 antibody Oct4 antibody Octamer binding protein 3 antibody Octamer binding protein 4 antibody Octamer binding transcription factor 3 antibody Octamer-binding protein 3 antibody Octamer-binding protein 4 antibody Octamer-binding transcription factor 3 antibody OTF 3 antibody OTF 4 antibody OTF-3 antibody OTF3 antibody OTF4 antibody PO5F1_HUMAN antibody POU class 5 homeobox 1 antibody POU domain class 5 transcription factor 1 antibody POU domain transcription factor OCT4 antibody POU domain, class 5, transcription factor 1 antibody POU-type homeodomain-containing DNA-binding protein antibody POU5F1 antibody
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Molecular Weight(MW)	45kDa
Cellular Localization	Cytoplasm, Nucleus

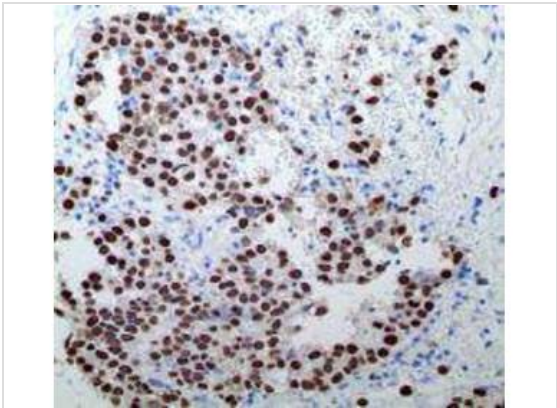
Database Links

SwissProt ID	Q01860
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Application



Application
 Fig1: Western blot analysis on (A) Seminoma, (B) NCCIT , and (C) HeLa cell lysates using anti-Oct-4



Application
 Fig2□ Immunohistochemical staining of paraffin-embedded human ovarian dysgerminoma using anti-Oct-4 RabMAb.

Positive Control	Hela, Seminoma, NCCIT .
Application Notes	WB: 1:1,000 IP: 1:10-100 IHC: 1:100 FC: 1:10-100

Additional Information

Form	Liquid
Storage Instructions	Store at -20 °C. Stable for 12 months from date of receipt
Storage Buffer	1*TBS (pH7.4), 0.5%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Note	The product is for research use only,not for use in diagnostic or therapeutic procedures.

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This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt

