

Oct-4, Rabbit Monoclonal Antibody

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Rev. Date: 21 July 2011

Catalog Number: A13998

Store at -20°C

Clonality: Monoclonal
Volume: 100 µL

Host/Class: Rabbit IgG
Reactivity: Human Oct-4
Predicted Reactivity: Human, Mouse

Product Description

Oct-4 (POU5F1) is a transcription factor highly expressed in undifferentiated embryonic stem cells and embryonic germ cells. A network of key factors that includes Oct-4, Nanog, and Sox2 is necessary for the maintenance of pluripotent potential, and downregulation of Oct-4 has been shown to trigger cell differentiation. Oct-4 is a useful germ cell tumor marker. Oct-4 exists as two splice variants, Oct-4A and Oct-4B. Recent studies have suggested that it is the Oct-4A isoform that has the ability to confer and sustain pluripotency, and that Oct-4B may exist in some somatic, non-pluripotent cells.

Product Specifications

Immunogen: Recombinant protein specific to the amino terminus of human Oct-4A
Alternate Names: POU class 5 homeobox 1, OCT3, OCT4, OTF-3, OTF3, OTF4, Oct-3, Oct-4
Apparent MW: 45 kDa
Gene ID: 5460
Protein Accession No.: Q01860
Sequence Identity: Human
Clone/PAD: C30A3
Lot: See product label

Product Applications

Application	Species	Test Material	Concentration
Western blotting	Human	Ntera2 cells	1:1000
Immuno fluorescence (IF-IC)	Human	Ntera2 cells	1:400
Flow Cytometry	Human	HeLa cells	1:600

Storage and Handling

Store the antibody at -20°C. Do not make aliquots of the antibody.

Stability

Expires one year from date of receipt when stored as instructed.

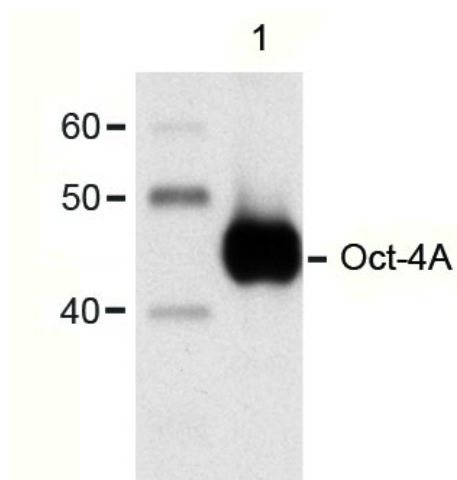


Figure 1 Western blot analysis of extracts from NTERA2 cells (lane 1) using Oct-4A Rabbit Monoclonal Antibody.

For research use only. Not for human or animal therapeutic or diagnostic use.

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Storage Buffer

10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/mL BSA, 50% glycerol and less than 0.02% sodium azide.

Safety Data Sheets (SDS)

Safety Data Sheets (SDSs) are available at www.invitrogen.com/sds.














Certificate of Analysis

The Certificate of Analysis provides detailed quality control and product qualification information for each product. Certificates of Analysis are available on our website. Go to www.invitrogen.com/support and search for the Certificate of Analysis by product lot number, which is printed on the box.

Related Products

Product Name	Quantity	Catalog No.
iBlot® Dry Blotting System	1 unit	IB1001
WesternBreeze™ Chromogenic Kit Anti-Rabbit	1 kit	WB7105
WesternBreeze™ Chemiluminescent Kit, Anti-Rabbit	1 kit	WB7106
Goat anti-mouse (H+L), HRP conj.	1 mg	G21040
Goat anti-rabbit (H+L), HRP conj.	1 mg	G21234
Goat anti-mouse (H+L), AP conj.	1 mg	G21060
Goat anti-rabbit (H+L), AP conj.	1 mg	G21079
Nitrocellulose, 0.2 µm	20/pack	LC2000

Explanation of symbols

Symbol	Description	Symbol	Description
	Catalogue Number		Batch code
	Research Use Only		In vitro diagnostic medical device
	Use by		Temperature limitation
	Manufacturer		European Community authorised representative
	Without, does not contain		With, contains
	Protect from light		Consult accompanying documents
	Directs the user to consult instructions for use (IFU), accompanying the product.		

Limited Use Label License: Research Use Only

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