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Datasheet for ABIN2855068

anti-OCT4 antibody

8 Images

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Overview

Quantity:	100 µL
Target:	OCT4 (POU5F1)
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This OCT4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunocytochemistry (ICC), Flow Cytometry (FACS), Immunoprecipitation (IP), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	Recombinant protein encompassing a sequence within the center region of human Oct4. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Rabbit Polyclonal antibody to OCT4 (POU class 5 homeobox 1) Oct4 antibody
Purification:	Purified by antigen-affinity chromatography.
Grade:	KO Validated

Target Details

Target:	OCT4 (POU5F1)
Alternative Name:	POU class 5 homeobox 1 (POU5F1 Products)
Background:	<p>This gene encodes a transcription factor containing a POU homeodomain. This transcription factor plays a role in embryonic development, especially during early embryogenesis, and it is necessary for embryonic stem cell pluripotency. A translocation of this gene with the Ewing's sarcoma gene, t(6,22)(p21,q12), has been linked to tumor formation. Alternative splicing, as well as usage of alternative translation initiation codons, results in multiple isoforms, one of which initiates at a non-AUG (CUG) start codon. Related pseudogenes have been identified on chromosomes 1, 3, 8, 10, and 12.</p> <p>Cellular Localization: Nucleus</p>
Molecular Weight:	39 kDa
Gene ID:	5460
UniProt:	Q01860
Pathways:	Stem Cell Maintenance

Application Details

Application Notes:	WB: 1:5000-1:100000. ICC/IF: 1:100-1:1000. IHC-P: 1:100-1:1000. FACS: 1:50-1:200. IP: 1:500-1:1000. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.
Comment:	Positive Control: mouse ESC , human ESC , NT2D1 Validation: KO/KD, Orthogonal, Overexpression
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.49 mg/mL
Buffer:	1XPBS (pH 7), 1 % BSA, 20 % Glycerol, 0.025 % ProClin 300
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

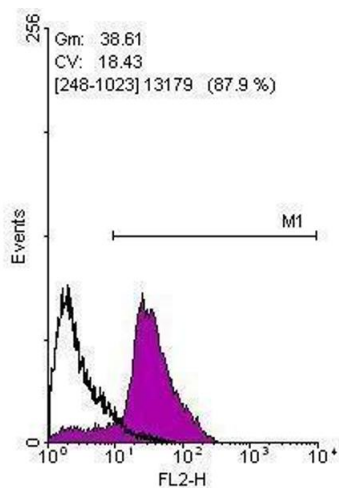
Storage: 4 °C,-20 °C

Storage Comment: Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

Publications

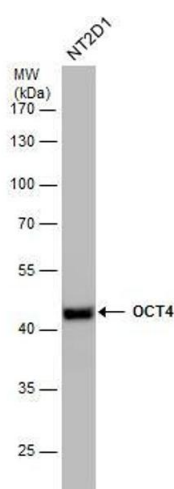
Product cited in: Qi, Liu, Zhang, Guo: "Platelets induce increased estrogen production through NF-κB and TGF-β1 signaling pathways in endometriotic stromal cells." in: **Scientific reports**, Vol. 10, Issue 1, pp. 1281, (2020) ([PubMed](#)).

Validation report #104342 for Multiplex Immunohistochemistry (mIHC)



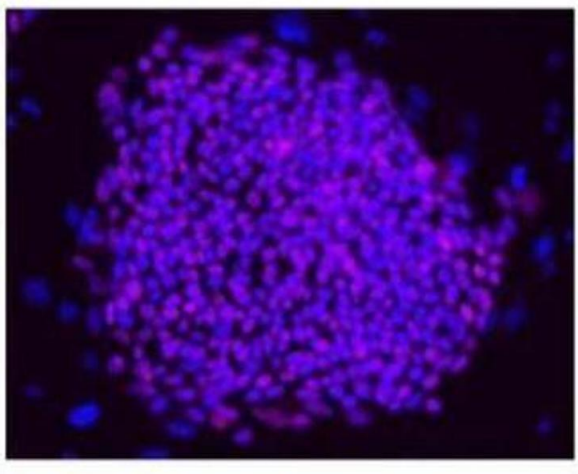
Flow Cytometry

Image 1. FACS Image Flow cytometry on human embryonic stem cells, staining with Oct4 antibody at 1:100 dilution (purple) or rabbit IgG (black).



Western Blotting

Image 2. WB Image OCT4 antibody detects OCT4 protein by western blot analysis. Whole cell extracts (30 μg) was separated by 10% SDS-PAGE, and the membrane was blotted with OCT4 antibody, at a dilution of 1:50000.



Immunofluorescence

Image 3. ICC/IF Image Immunofluorescence analysis of hESCs on CF1 feeders, using OCT3/4, antibody at 1:200 dilution.

Please check the [product details page](#) for more images. Overall 8 images are available for ABIN2855068.