

Rabbit anti-Human OCT4 (OCT3) Polyclonal Antibody | anti-POU5F1 antibody

OCT4 (OCT3) Antibody (E125)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA288564	Rabbit	Human	Immunofluorescence, ELISA, Western Blot

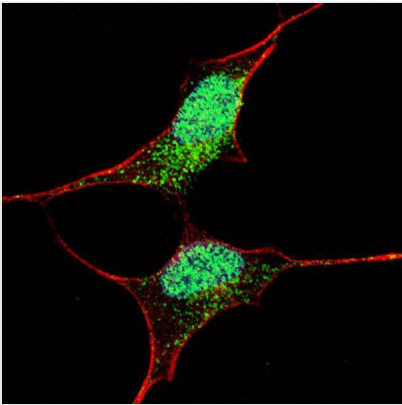
PRODUCT SYNONYMS

OCT4 (OCT3); Polyclonal Antibody; OCT4 (OCT3) Antibody (E125); 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; POU5F1; OCT3; OCT4; OTF3; anti-POU5F1 antibody

PRODUCT SPECIFICATIONS

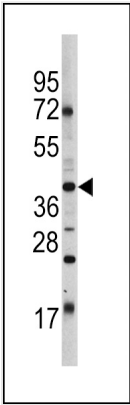
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This OCT4 (OCT3) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 110-141 amino acids from human OCT4 (OCT3).
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Concentration	Vial Concentration: 2 (varies by lot)
Sequence Positions	110-141
Sequence Length	360
Applicable Applications for anti-POU5F1 antibody	IF (Immunofluorescence), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



IF (Immunofluorescence)

Fluorescent confocal image of SY5Y cells stained with AAA288564 OCT4 (E125) antibody. SY5Y cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.2%, 30 min), then incubated with AAA288564 OCT4 (E125) primary antibody (1:500, 2 h at room temperature). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:1000, 1h). Cytoplasmic actin was counterstained with Alexa Fluor 555 (red) conjugated Phalloidin (5.25 uM, 25 min). Nuclei were counterstained with Hoechst 33342 (blue) (10 ug/ml, 3 min). OCT4 immunoreactivity is localized mainly to the nuclei and also to the cytoplasm.



WB (Western Blot)

Western blot analysis of OCT3/4 Antibody (E125) in HL60 cell line lysates (35ug/lane). OCT3/4 (arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

Related Product Information for anti-POU5F1 antibody	Transcription factors containing the POU homeodomain have been shown to be important regulators of tissue-specific gene expression in lymphoid and pituitary differentiation and in early mammalian development. Two forms of OCT3 mRNA are expressed in adult tissues as a result of alternative splicing--OCT3A and OCT3B. Reverse transcriptase PCR showed low level of expression in both OCT3A and OCT3B mRNA in all adult human tissues examined. Oct3 is present in mouse oocytes before and after fertilization. When fertilized oocytes were injected with antisense Oct3 oligonucleotides or double-stranded DNA containing the octamer motif, embryonic DNA synthesis was inhibited and the embryos were arrested at the one-cell stage.
Product Categories/Family for anti-POU5F1 antibody	Developmental Biology; Signal Transduction
References	Looijenga, L.H., et al., Cancer Res. 63(9):2244-2250 (2003). Remenyi, A., et al., Genes Dev. 17(16):2048-2059 (2003). Nichols, J., et al., Cell 95(3):379-391 (1998). Crouau-Roy, B., et al., Genomics 21(1):241-243 (1994). Takeda, J., et al., Nucleic Acids Res. 20(17):4613-4620 (1992).

NCBI AND UNIPROT INFORMATION

NCBI GI #	42560248
NCBI GeneID	5460
NCBI Accession #	NP_002692.2
NCBI GenBank Nucleotide #	NM_002701.5
UniProt Accession #	Q01860; P31359; Q15167; Q15168; Q16422; Q5STF3; Q5STF4; A6NCS1; A6NLL8; D2IYK4
Molecular Weight	38571
NCBI Official Full Name	POU domain, class 5, transcription factor 1 isoform 1
NCBI Official Synonym Full Names	POU class 5 homeobox 1
NCBI Official Symbol	POU5F1
NCBI Official Synonym Symbols	OCT3; OCT4; OTF3; OTF4; OTF-3; Oct-3; Oct-4
NCBI Protein Information	POU domain, class 5, transcription factor 1

UniProt Protein Name	POU domain, class 5, transcription factor 1
UniProt Gene Name	POU5F1
UniProt Synonym Gene Names	OCT3; OCT4; OTF3; Oct-3; Oct-4; OTF-3
UniProt Entry Name	PO5F1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/oct4-oct3-antibody-immunofluorescence-western-blot-elisa/288564>