

Rabbit POU5F1 Polyclonal Antibody | anti-POU5F1 antibody

POU5F1 Antibody

CATALOG # AAA40029	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot, ELISA
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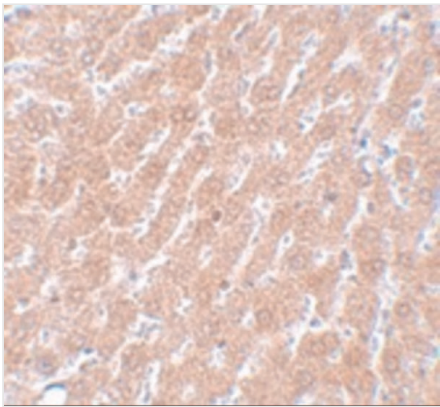
PRODUCT SYNONYMS

POU5F1; Polyclonal Antibody; POU5F1 Antibody; OCT3; OCT4; OTF3; OTF4; OTF-3; Oct-3; Oct-4; POU domain; class 5; transcription factor 1; Octamer-binding protein 3; 41915; POU class 5 homeobox 1; anti-POU5F1 antibody

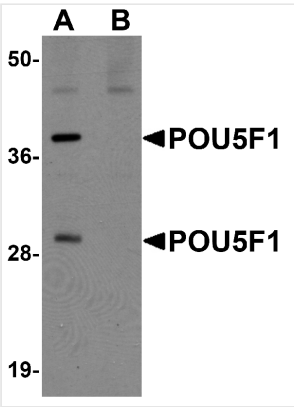
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	POU5F1 Antibody is affinity chromatography purified via peptide column.
Form/Format	Liquid
Concentration	1 mg/mL (varies by lot)
Sequence Length	360
Applicable Applications for anti-POU5F1 antibody	IHC (Immunohistochemistry), WB (Western Blot), ELISA
Conjugate	Unconjugated
Immunogen	POU5F1 antibody was raised against a 14 amino acid synthetic peptide near the carboxy terminus of human POU5F1.
Buffer	POU5F1 Antibody is supplied in PBS containing 0.02% sodium azide.
Preparation and Storage	POU5F1 antibody can be stored at 4 degree C for three months and -20 degree C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

IMAGES



IHC (Immunohistochemistry)
Immunohistochemistry of POU5F1 in rat liver tissue with POU5F1 antibody at 5 μgg/mL.



WB (Western Blot)
Western blot analysis of POU5F1 in mouse liver tissue lysate with POU5F1 antibody at 1 μg/ml in (A) the absence and (B) the presence of blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-POU5F1 antibody	POU5F1 Antibody: POU5F1, also commonly known as Oct-4, is a maternally expressed octamer-binding protein that was the first transcription factor described for the early stages of development. The role of POU5F1 in embryonic development suggested that it might be useful in the creation of stem cells that might be useful in cell replacement therapies in the treatment of several degenerative diseases. Artificial stem cells, termed induced pluripotent stem (iPS) cells, can be created by expressing POU5F1 and the transcription factors Sox2, Klf4 and Lin28 along with c-Myc in mouse fibroblasts. More recently, experiments have demonstrated that iPS cells could be generated using expression plasmids expressing POU5F1, Sox2, Klf4 and c-Myc, eliminating the need for virus introduction, thereby addressing a safety concern for potential use of iPS cells in regenerative medicine.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	42560248
NCBI GeneID	5460
NCBI Accession #	NP_002692
NCBI GenBank Nucleotide #	NM_002701.5
UniProt Accession #	Q01860; P31359; Q15167; Q15168; Q16422; Q5STF3; Q5STF4; A6NCS1; A6NLL8; D2IYK4
Molecular Weight	30,085 Da
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; octamer-binding protein 3; octamer-binding protein 4; POU domain transcription factor OCT4; octamer-binding transcription factor 3; POU-type homeodomain-containing DNA-binding protein
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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/pou5f1-antibody-immunohistochemistry-western-blot-elisa/40029>