

## Anti-POU5F1 Antibody

Catalog Number: A00174

### About POU5F1

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.

### Overview

Product Name	Anti-POU5F1 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-POU5F1 Antibody (Catalog # A00174). Tested in ELISA, WB, IHC-P applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IHC-P, WB
Clonality	Polyclonal
Formulation	POU5F1 Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	POU5F1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	Q01860

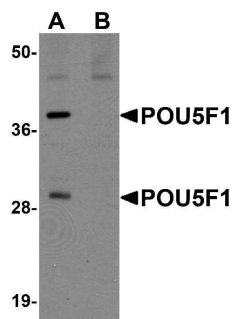
### Technical Details

Immunogen	POU5F1 antibody was raised against a 14 amino acid synthetic peptide near the carboxy terminus of human POU5F1. The immunogen is located within amino acids 260 - 310 of POU5F1.
Predicted Reactive Species	Chicken, Pig
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	POU5F1 Antibody is affinity chromatography purified via peptide column.

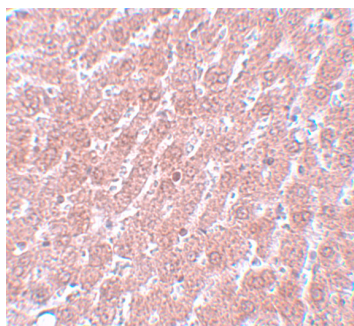
Suggested Dilutions

POU5F1 antibody can be used for detection of POU5F1 by Western blot at 1 ug/mL. Antibody can also be used for immunohistochemistry starting at 5 ug/mL.  
Antibody validated: Western Blot in mouse samples and Immunohistochemistry in rat samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

## Anti-POU5F1 Antibody (A00174) Images



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



Immunohistochemistry of POU5F1 in rat liver tissue with POU5F1 antibody at 5 ug/mL.

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Anti-POU5F1 Antibody

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