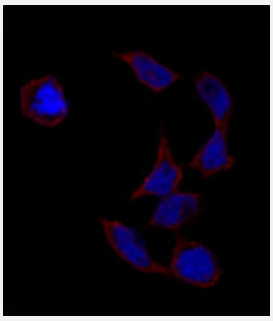
# POU5F1 polyclonal antibody

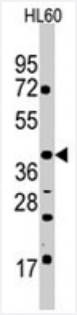
Catalog # PAB3870 Size 400 uL

## Applications



### Immunofluorescence

Immunofluorescence analysis of POU5F1 polyclonal antibody (Cat # PAB3870) in HeLa cells. 0.025 mg/mL primary antibody was followed by Alexa-Fluor-546-conjugated donkey anti-rabbit IgG (H+L). Alexa-Fluor-546 emits orange fluorescence. Blue counterstaining is DAPI.




### Western Blot (Cell lysate)

Western blot analysis of POU5F1 polyclonal antibody (Cat # PAB3870) in HL-60 cell line lysates (35 ug/lane). POU5F1 (arrow) was detected using the purified polyclonal antibody (1:1000 dilution).

## Specification

| | |
|---|---|
| **Product Description** | Rabbit polyclonal antibody raised against synthetic peptide of POU5F1. |
| **Immunogen** | A synthetic peptide (conjugated with KLH) corresponding to residues surrounding E125 of human POU5F1. |
| **Host** | Rabbit |
| **Reactivity** | Human |
| **Form** | Liquid |
| **Purification** | Ammonium sulfate precipitation |

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| | |
|---|---|
| **Recommend Usage** | Immunofluorescence (1:10-50)<br>Western Blot (1:1000)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS (0.09% sodium azide) |
| **Storage Instruction** | Store at 4°C. For long term storage store at -20°C.<br>Aliquot to avoid repeated freezing and thawing. |
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

## Applications

- Immunofluorescence

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## Gene Info — POU5F1

| | |
|---|---|
| **Entrez GeneID** | 5460 |
| **Protein Accession#** | NP_002692;Q01860 |
| **Gene Name** | POU5F1 |
| **Gene Alias** | MGC22487, OCT3, OCT4, OTF3, OTF4 |
| **Gene Description** | POU class 5 homeobox 1 |
| **Omim ID** | 164177 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | class 5 |
| **Other Designations** | OTTHUMP00000029292\|POU domain, class 5, transcription factor 1\|POU-type homeodomain-c ontaining DNA-binding protein\|octamer-binding transcription factor-3 |

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## Publication Reference

- Crystal structure of a POU/HMG/DNA ternary complex suggests differential assembly of Oct4 and Sox2 on two enhancers.

  Remenyi A, Lins K, Nissen LJ, Reinbold R, Scholer HR, Wilmanns M.

  Genes & Development 2003 Aug; 17(16):2048.

- POU5F1 (OCT3/4) identifies cells with pluripotent potential in human germ cell tumors.

  Looijenga LH, Stoop H, de Leeuw HP, de Gouveia Brazao CA, Gillis AJ, van Roozendaal KE, van Zoelen EJ, Weber RF, Wolffenbuttel KP, van Dekken H, Honecker F, Bokemeyer C, Perlman EJ, Schneider DT, Kononen J, Sauter G, Oosterhuis JW.

  Cancer Research 2003 May; 63(9):2244.

  Application: IHC-P, Human, Human germ cell tumors

- Formation of pluripotent stem cells in the mammalian embryo depends on the POU transcription factor Oct4.

  Nichols J, Zevnik B, Anastassiadis K, Niwa H, Klewe-Nebenius D, Chambers I, Scholer H, Smith A.

  Cell 1998 Oct; 95(3):379.

## Disease

- Abortion
- Genetic Predisposition to Disease
- Lupus Erythematosus
- Psoriasis
- Tobacco Use Disorder

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