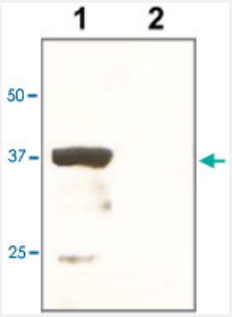
POU5F1 polyclonal antibody

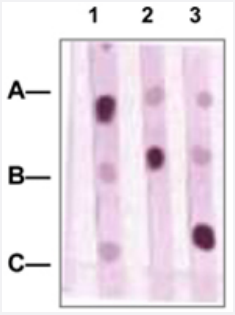
Catalog # PAB12773 Size 100 ug

Applications



Western Blot (Tissue lysate)

The tissue lysate derived from mouse kidney was immunoprobed by POU5F1 polyclonal antibody (Cat # PAB12773) at 1 : 500.
An immunoreactive band is observed around ~34 kDa (1).
This band is abolished by pre-incubation with immunizing peptide (2).



Dot Blot (Peptide)

Dot Blot : 1 ug peptides was blotted onto NC membrane.
A : POU2F1
B : POU2F2
C : POU5F1
Followed by immunoblotting at a 1 : 1000 dilution by :
1 : POU2F1 polyclonal antibody (Cat # PAB12771)
2 : POU2F2 polyclonal antibody (Cat # PAB12772)
3 : POU5F1 polyclonal antibody (Cat # PAB12773)

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of POU5F1.
Immunogen	A synthetic peptide corresponding to internal domain of human, mouse and rat POU5F1.
Host	Rabbit
Theoretical MW (kDa)	39
Reactivity	Human, Mouse, Rat
Specificity	This antibody recognizes ~39 KDa of POU5F1. It does not cross react with POU2F1, POU2F2.

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Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	Western Blot (0.1-1 ug/mL) ELISA (0.01-0.1 ug/mL) Immunoprecipitation (2-5 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In TBS, pH 7.2 (BSA, 10% Proclin300)
Storage Instruction	Store at 4°C. For long term storage store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Immunohistochemistry
- Enzyme-linked Immunoabsorbent Assay
- Immunoprecipitation
- Western Blot (Tissue lysate)

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  This band is abolished by pre-incubation with immunizing peptide (2).

- Dot Blot (Peptide)

  Dot Blot : 1 ug peptides was blotted onto NC membrane.
  A : POU2F1
  B : POU2F2
  C : POU5F1
  Followed by immunoblotting at a 1 : 1000 dilution by :
  1 : POU2F1 polyclonal antibody (Cat # PAB12771)
  2 : POU2F2 polyclonal antibody (Cat # PAB12772)
  3 : POU5F1 polyclonal antibody (Cat # PAB12773)

Gene Info — POU5F1

Entrez GeneID	5460
Gene Name	POU5F1

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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-containing DNA-binding protein|octamer-binding transcription factor-3

Gene Info — Pou5f1

Entrez GeneID	18999
Gene Name	Pou5f1
Gene Alias	Oct-3, Oct-3/4, Oct-4, Oct3, Oct3/4, Oct4, Otf-3, Otf-4, Otf3, Otf3-rs7, Otf3g, Otf4
Gene Description	POU domain, class 5, transcription factor 1
Gene Ontology	Hyperlink
Gene Summary	class 5
Other Designations	-

Gene Info — Pou5f1

Entrez GeneID	294562
Gene Name	Pou5f1
Gene Alias	-
Gene Description	POU class 5 homeobox 1
Gene Ontology	Hyperlink
Gene Summary	class 5
Other Designations	POU domain, class 5, transcription factor 1

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Publication Reference

- Post-translational modification of POU domain transcription factor Oct-4 by SUMO-1.

  Zhang Z, Liao B, Xu M, Jin Y.

  FASEB Journal 2007 Oct; 21(12):3042.

  Application: WB-Tr, Human, Mouse , HEK 293 cells, Mouse embryonic stem cells

Disease

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

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