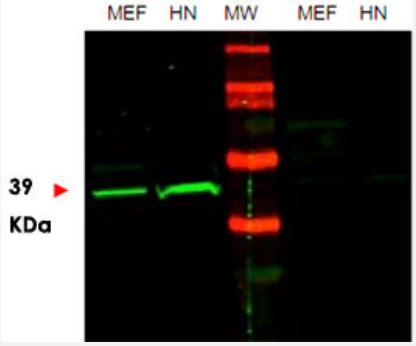
POU5F1 polyclonal antibody

Catalog # PAB10296 Size 100 ug

Applications



Western Blot

Western blot using POU5F1 polyclonal antibody (Cat # PAB10296) shows detection of endogenous POU5F1 in mouse embryonic fibroblast (MEF) cell lysate (lane 1) and HeLa nuclear extract (HN) (lane 2).
The band at ~39 kDa (arrowhead) corresponds to POU5F1.
After transfer, the membrane was blocked with 5% BSA.
Primary antibody was used at a 1 : 1,000 dilution in PBS containing 5% BSA.
The specificity of the antibody was confirmed by peptide competition which blocks reaction of the antibody with POU5F1 (lanes 3 and 4, respectively).

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of POU5F1.
Immunogen	A synthetic peptide corresponding to internal region of human POU5F1.
Host	Rabbit
Reactivity	Bovine, Chimpanzee, Dog, Horse, Human, Macaque, Mink, Mouse, Pig
Specificity	This antibody reacts with human and mouse Oct-4 protein.
Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:350000) Western Blot (1:1000-1:1500) The optimal working dilution should be determined by the end user.
Storage Buffer	In 20 mM KH_2PO_4, 150 mM NaCl, pH 7.2 (0.01% sodium azide)

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Storage Instruction	Store at 4°C. For long term storage store at -20°C. 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
- Enzyme-linked Immunoabsorbent Assay
- Immunoprecipitation
- Western Blot

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Gene Info — POU5F1

Entrez GeneID	5460
Protein Accession#	NP_976034;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

- Oct-4 mRNA and protein expression during human preimplantation development.

  Cauffman G, Van de Velde H, Liebaers I, Van Steirteghem A.

  Molecular Human Reproduction 2005 Mar; 11(3):173.

  Application: ICC, Human, Oocytes, Preimplantation embryos, Blastocysts

- Oct-4-expressing cells in human amniotic fluid: a new source for stem cell research?

  Prusa AR, Marton E, Rosner M, Bernaschek G, Hengstschlager M.

  Human Reproduction 2003 Jul; 18(7):1489.

  Application: IF, WB, Human, Amniotic fluid cells

- High Oct-ane fuel powers the stem cell.

  Donovan PJ.

  Nature Genetics 2001 Nov; 29(3):246.

Disease

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

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