

CA1022	POU5F1 (Oct4)	
	Monoclonal Antibody (PR-1A6)	
	Prod. No. S2097-100UG	
	<i>For Research Use Only Not intended for use in humans or animals</i>	
	Orders & Support	866 372-7442 support@primorigen.com
	Web	www.primorigen.com

Reacts with	Human*
Tested Applications	WB, ELISA, Dot
Host	Mouse
Clone	PR-1A6
Isotype	IgG1, κ

*Other species not tested

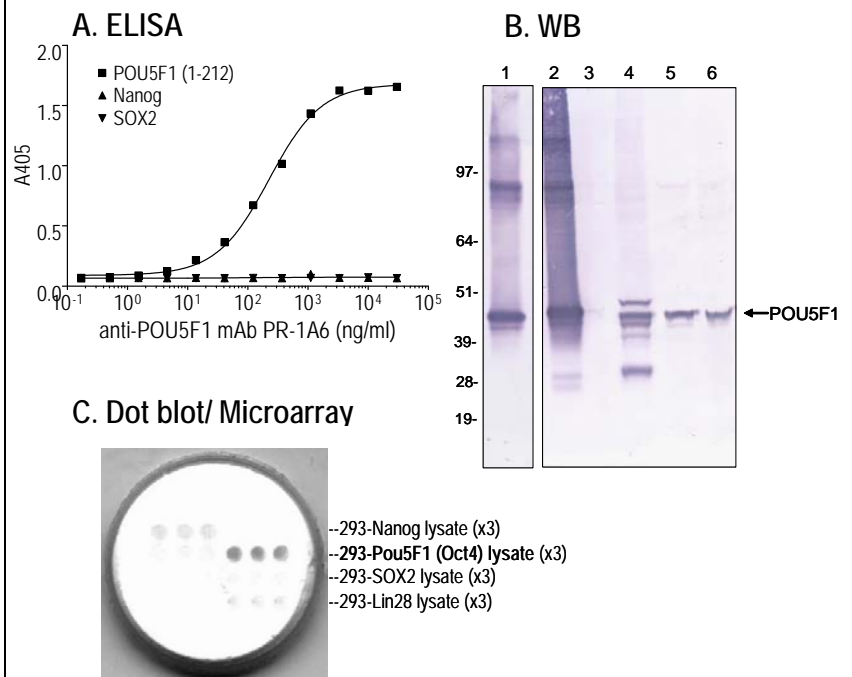
Size: 100 μ g
Immunogen: Recombinant human POU5F1 (Oct4) fragment (AA 1-212) expressed in <i>E. coli</i> and refolded to soluble form.
Purification: Protein G chromatography
Formulation: 1 mg/ml in PBS Preservative: 0.09% NaN ₃
Storage: Store at 4°C (<3 months) or -20°C. Avoid multiple freeze-thaws.
Recommended Uses:
Western Blot 1:1000-1:5000
ELISA (detect) 1:1000-1:5000
Dot blot (detect) 1:1000
Note: Optimal concentrations should be empirically determined.
Target Alternative Names: POU domain, class 5, transcription factor 1; Octamer-binding protein 4; Oct-4; Oct-3; Oct-3/4; OTF-3
Target Size: 360 AA; 38.6 kDa
Target Database Links:
RefSeq Protein NP_002692.2
RefSeq Gene NM_002701.4
UniProt Q01860

Background: POU5F1, commonly known as Octamer-binding protein 4 (Oct4), is a POU transcription factor family member that is critical for maintaining embryonic stem (ES) cell pluripotency and preventing differentiation to germ layers and mature cell lineages. For this reason, POU5F1 expression is frequently used as a marker for undifferentiated stem cells. It contains a POU-specific domain and a homeobox DNA-binding domain. When transfected together with other key pluripotent transcription factors, POU5F1 has been used to reprogram somatic cells into induced pluripotent stem (iPS) cells.

Applications:

- (A) Indirect ELISA detection of immobilized POU5F1 (AA 1-212) immunogen with titrated amounts of POU5F1 (Oct4) mAb (PR-1A6). No binding is seen to irrelevant recombinant proteins Nanog or SOX2.
- (B) Western blot detection of POU5F1 using 0.1 μ g/ml (Lane 1) or 1.0 μ g/ml (Lanes 2-6) POU5F1 (Oct4) mAb (PR-1A6): (1&2) 250 ng recombinant POU5F1 protein (3) 20 μ g untransfected HEK-293 lysate, (4) 20 μ g HEK-293-POU5F1 transfectant cell lysate, (5) 20 μ g NTERA-2 cell lysate, (6) 20 μ g 2102 cell lysate.
- (C) Specific detection of POU5F1 in transfected HEK-293 cell lysates (non-denatured) printed on Spots On Dots™ nitrocellulose membrane.

Note: Representative data are shown (not Lot-specific).



Warranty: Each Lot has been verified to meet quality specifications in accordance with testing guidelines. We will replace the product if it does not conform to specifications. Product guaranteed for 6 months from date of purchase if stored as directed. This product must not be resold without written permission from Primorigen Biosciences.

Limited Use License

“For Research Use Only”

This product is to be used for Research Purposes only and for no other purpose. The term “Research Purposes” means scientific research programs directly under the user’s control, which are specifically directed to the purposes of internal research and not for any Commercial Purpose. The purchase and/or use of this product conveys to the user the non-transferable right to use the product and the components of the product in research conducted by the user. The user will not reformulate the Product and shall not sell or otherwise transfer this product, its components, or materials made therefrom to any third party. User shall not use this product or its components for Commercial Purposes until it has obtained a license for this purpose. The term “Commercial Purposes” shall mean any activity by a party for consideration and may include, but is not limited to, use of the product or its components (i) in manufacturing, (ii) to provide a service, information or data to a third party (e.g. fee for sample testing), (iii) for therapeutic, diagnostic or prophylactic purposes, (iv) for resale, whether or not such product or its components are resold for use in research, or (v) in a quality control or quality assurance process for the manufacture of a product for sale. The use of this product by the user constitutes agreement with the terms of this limited use label license for Primorigen Biosciences Inc.”

Primorigen Biosciences Inc. warrants that its products will conform to the standards stated in its product specification sheets in effect at the time of shipment when used as directed. Primorigen Biosciences Inc. will replace, free of charge, any product that does not conform to the specifications, but only when used as directed. This warranty limits the liability of Primorigen Biosciences Inc. to only the replacement of the product. **THIS WARRANTY IS EXCLUSIVE, and Primorigen Biosciences INC. MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** The stated express warranties, and the remedy provided for breach thereof, are in lieu of all other liability or obligations of Primorigen Biosciences INC. for any damages whatsoever arising out of or in connection with the delivery, use, performance, or the inability to use any of its products. **IN NO EVENT SHALL Primorigen Biosciences INC. BE LIABLE UNDER ANY LEGAL THEORY (INCLUDING BUT NOT LIMITED TO CONTRACT, NEGLIGENCE, STRICT LIABILITY IN TORT, OR WARRANTY OF ANY KIND) FOR ANY INDIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES (INCLUDING BUT NOT LIMITED TO LOST PROFITS).** Without limiting the effect of the preceding sentence, the maximum liability, if any, of Primorigen Biosciences Inc., shall not exceed the purchase price paid by PURCHASER for the product. The use of the product by the user constitutes user's understanding of and agreement with the terms of this limited warranty and limited liability policy.