For Research Use Only

OCT4 Monoclonal antibody, PBS Only

Catalog Number:60242-1-PBS

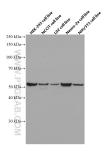


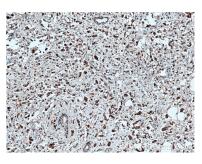
Basic Information	Catalog Number: 60242-1-PBS	GenBank Accession Number: BC020712	Purification Method: Protein A purification
	Size: 100ug , Concentration: 1mg/ml by Nanodrop; Source: Mouse Isotype: IgG1 Immunogen Catalog Number: AG1794	GenelD (NCBI): 5460 UNIPROT ID: Q01860 Full Name: POU class 5 homeobox 1 Calculated MW: 39 kDa Observed MW: 50-52 kDa	CloneNo.: 1C4B6
Applications	Tested Applications: WB, IHC, Indirect ELISA Species Specificity: human, mouse, rat		
Background Information	Expression of the OCT4 transcription factor is associated with an undifferentiated phenotype of human and mouse embryonic stem cells and germ cells. OCT4 (Octamer-4) is a homeodomain transcription factor of the POU family (POU5F1) involved in regulation of pluripotency during normal development and is detectable in embryonic stem (ES) and germ cells. Its expression is associated with an undifferentiated phenotype and tumors. In fact, gene knockdown of OCT4 promotes differentiation, thereby demonstrating a role for this factor in human ES cell self- renewal. As such, it is frequently used as a marker for undifferentiated ES cells or iPS (induced pluripotent stem) cells. OCT4 is one of the four key transcription factors (OCT4, SOX2, c-MYC, and KLF4) used to reprogram mouse and human fibroblasts to a pluripotent state as well as generate patient-specific iPS cells. The calculated molecular weight of OCT4 is 38 kDa, but the modified OCT4 protein is about 50 kDa.		
Storage	Storage: Store at -80°C. Storage Buffer: PBS Only		

For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA)E: proteintech@ptglab.comW: ptglab.comW: ptglab.com

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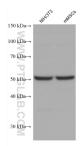
Selected Validation Data





Various lysates were subjected to SDS PAGE followed by western blot with 60242-1-Ig (OCT4 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 60242-1-PBS in a different storage buffer formulation.

Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 60242-1-1g (OCT4 antibody) at dilution of 1:500 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 60242-1-PBS in a different storage buffer formulation. Various lysates were subjected to SDS PAGE followed by western blot with 60242-1-Ig (OCT4 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 60242-1-PBS in a different storage buffer formulation.



Various lysates were subjected to SDS PAGE followed by western blot with 60242-1-Ig (OCT4 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 60242-1-PBS in a different storage buffer formulation.