

**bsm-63076R****[ Primary Antibody ]****BioSS**  
ANTIBODIES

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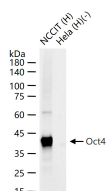
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**Oct4 Recombinant Rabbit mAb****— DATASHEET —**

<b>Host:</b> Rabbit	<b>Isotype:</b> IgG	<b>Applications:</b> <b>WB</b> (1:500-2000) <b>IHC-P</b> (1:50-200) <b>IHC-F</b> (1:50-200) <b>IF</b> (1:50-200)  <b>Reactivity:</b> Human (predicted: Mouse)   <b>Predicted MW.:</b> 39 kDa  <b>Subcellular Location:</b> Nucleus
<b>Clonality:</b> Recombinant	<b>CloneNo.:</b> 6B9	
<b>GeneID:</b> 5460	<b>SWISS:</b> Q01860	
<b>Target:</b> Oct4		
<b>Immunogen:</b> A synthesized peptide derived from human Oct 4: 20-48.		
<b>Purification:</b> affinity purified by Protein A		
<b>Concentration:</b> 1mg/ml		
<b>Storage:</b> 10mM phosphate buffered saline , pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02% Proclin300 and 50% glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.		
<b>Background:</b> Expression of the POU-domain transcription factor Octamer-4 (Oct-4) is widely regarded as a hallmark of pluripotent stem cells. The relationship of Oct-4 to pluripotent stem cells is indicated by its tightly restricted expression to undifferentiated pluripotent stem cells. Upon differentiation to somatic lineages, the expression of Oct-4 disappears rapidly. Unlike the majority of pluripotent stem cell markers, the biological role of Oct-4 has been well characterized. Studies performed in mice point to the critical role of Oct-4 in the establishment and/or maintenance of pluripotent stem cells in an uncommitted state.		

**— VALIDATION IMAGES —**

25 ug total protein per lane of various lysates (see on figure) probed with Oct4 monoclonal antibody, unconjugated (bsm-63076R) at 1:2000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.