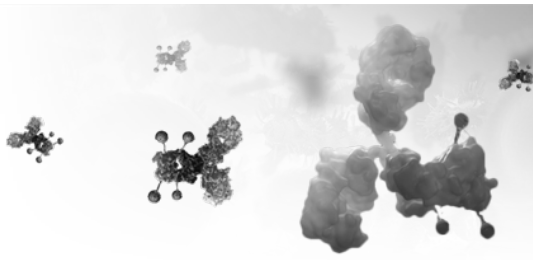

Anti-POU5F1 monoclonal antibody, clone 452DU8.7.3 (DCABY-1297)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	This gene encodes a transcription factor containing a POUhomeodomain. This transcription factor plays a role in embryonicdevelopment, especially during early embryogenesis, and it isnecessary for embryonic stem cell pluripotency. A translocation ofthis gene with the Ewing's sarcoma gene, t(6; 22)(p21; q12), has beenlinked to tumor formation. Alternative splicing, as well as usageof alternative translation initiation codons, results in multipleisoforms, one of which initiates at a non-AUG (CUG) start codon.Related pseudogenes have been identified on chromosomes 1, 3, 8,10, and 12.
Specificity	This POU5F1 monoclonal antibody is generated from mouse immunized with POU5F1 recombinant protein.
Isotype	IgM
Source/Host	Mouse
Species Reactivity	Human, Mouse
Clone	452DU8.7.3
Conjugate	Unconjugated
Applications	WB
Molecular Weight	38571 Da
Format	Mouse monoclonal antibody supplied in crude ascites with 0.09% (W/V) sodium azide.
Size	100 µl
Preservative	0.09% Sodium Azide

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Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Ship	Blue ice

GENE INFORMATION

Gene Name	POU5F1 POU class 5 homeobox 1 [Homo sapiens (human)]
Official Symbol	POU5F1
Synonyms	POU5F1; OCT3; OCT4; OTF3; POU domain; class 5; transcription factor 1; Octamer-binding protein 3; Octamer-binding protein 4; Octamer-binding transcription factor 3
Entrez Gene ID	5460
Protein Refseq	NP_001167002
UniProt ID	M1S623
Chromosome Location	6p21.31
Pathway	Cardiac Progenitor Differentiation; HIF-2-alpha transcription factor network; SIDS Susceptibility Pathways; Wnt Signaling Pathway and Pluripotency
Function	DNA binding; miRNA binding; poly(A) RNA binding; protein binding; sequence-specific DNA binding; sequence-specific DNA binding RNA polymerase II transcription factor activity; sequence-specific DNA binding transcription factor activity; transcription factor binding; transcription regulatory region DNA binding; ubiquitin protein ligase binding

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