



Anti-POU5F1 (aa 1-14) polyclonal antibody (DPABH-15119)

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

PRODUCT INFORMATION

Antigen Description	Transcription factor that binds to the octamer motif (5-ATTTGCAT-3). Forms a trimeric complex with SOX2 on DNA and controls the expression of a number of genes involved in embryonic development such as YES1, FGF4, UTF1 and ZFP206. Critical for early embryogenesis and for embryonic stem cell pluripotency.
Specificity	The antibody reacts with 45 kDa Oct4 (also designated Oct3A) and in a less extent 33 kDa Oct3B from human, mouse, and rat samples.
Immunogen	Synthetic peptide within Human Oct4 aa 1-14 (N terminal). The exact sequence is proprietary. Sequence: MAGHLASDFAFSPC Database link: P20263
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Mouse, Rat, Human, Pig, Macaque Monkey
Purification	Protein A purified
Conjugate	Unconjugated
Applications	IHC-Fr, WB, IP, ICC/IF, Flow Cyt, IHC-P
Format	Liquid
Size	100 µg
Buffer	pH: 7.20; Constituents: 69% PBS, 30% Glycerol, 0.5% BSA, 0.15% EDTA
Preservative	None

Storage	Store at 4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
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GENE INFORMATION

Gene Name	POU5F1 POU class 5 homeobox 2 [Homo sapiens]
Official Symbol	POU5F1
Synonyms	POU5F1; POU class 5 homeobox 1; OCT3; OCT4; OTF3; OTF4; OTF-3; Oct-3; Oct-4; POU domain, class 5, transcription factor 1; octamer-binding protein 3; octamer-binding protein 4; POU domain transcription factor OCT4; octamer-binding transcription factor 3; POU-type homeodomain-containing DNA-binding protein;
Entrez Gene ID	5460
Protein Refseq	NP_001167002.1
UniProt ID	M1S623
Pathway	Cardiac Progenitor Differentiation; HIF-2-alpha transcription factor network; POU5F1 (OCT4), SOX2, NANOG repress genes related to differentiation; Transcriptional regulation of pluripotent stem cells
Function	DNA binding; miRNA binding; poly(A) RNA binding; protein binding