

Product datasheet for **TA324014**

Oct4 (POU5F1) Rabbit Polyclonal Antibody

Product data:

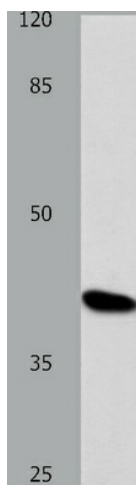
Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	ELISA: 1:2000-5000, WB: 1:500-2000, IHC: 1:50-200
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein corresponding to a region derived from 1-150 amino acids of human POU class 5 homeobox 1
Formulation:	PBS pH7.3, 0.05% NaN ₃ , 50% glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	39 kDa
Gene Name:	POU class 5 homeobox 1
Database Link:	NP_001167002 Entrez Gene 18999 Mouse Entrez Gene 294562 Rat Entrez Gene 5460 Human Q01860
Background:	This gene encodes a transcription factor containing a POU homeodomain. This transcription factor plays a role in embryonic development; especially during early embryogenesis; and it is necessary for embryonic stem cell pluripotency. A translocation of this gene with the Ewing's sarcoma gene; t(6;22)(p21;q12); has been linked to tumor formation. Alternative splicing; as well as usage of alternative translation initiation codons; results in multiple isoforms; one of which initiates at a non-AUG (CUG) start codon. Related pseudogenes have been identified on chromosomes 1; 3; 8; 10; and 12.
Synonyms:	Oct-3; Oct-4; OCT3; OCT4; OTF-3; OTF3; OTF4



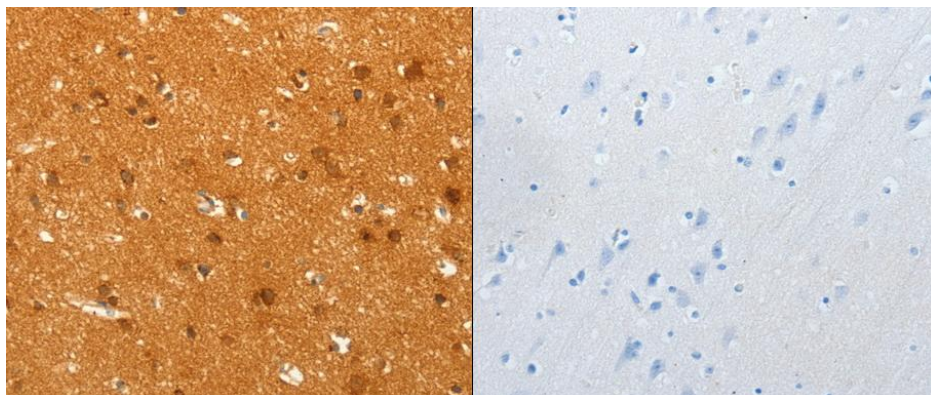
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Protein Families: Adult stem cells, Cancer stem cells, Embryonic stem cells, Induced pluripotent stem cells, Stem cell - Pluripotency, Transcription Factors

Product images:



Predicted band size: 39 kDa. Positive control: K562 cell lysate. Recommended dilution: 1/500-2000. (Gel: 8%SDS-PAGE Lysate: 40 ug Primary antibody: 1/500 dilution Secondary antibody: Goat anti Rabbit IgG - H&L (HRP) at 1/10000 dilution Exposure time: 30 seconds)



Predicted cell location: Cytoplasm, Nucleus. Positive control: Human brain tissue. Recommended dilution: 1/50-200 The image on the left is immunohistochemistry of paraffin-embedded Human brain tissue using POU5F1 antibody at dilution 1/30, on the right is treated with the fusion protein. (Original magnification: x200)