

Anti-Oct-1 Picoband Antibody

Catalog # ABO12008

Product Information

Application	WB, IHC-P
Primary Accession	P14859
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for POU domain, class 2, transcription factor 1(POU2F1) detection. Tested with WB, IHC-P in Human.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	5451
Other Names	POU domain, class 2, transcription factor 1, NF-A1, Octamer-binding protein 1, Oct-1, Octamer-binding transcription factor 1, OTF-1, POU2F1, OCT1, OTF1
Calculated MW	76472
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, By Heat Western blot, 0.1-0.5 μ g/ml, Human
Subcellular Localization	Nucleus.
Tissue Specificity	Ubiquitous. Isoform 2 is lymphocyte-specific.
Source	Eukaryota
Protein Name	POU domain, class 2, transcription factor 1
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	E.coli-derived human Oct-1 recombinant protein (Position: S11-Q240). Human Oct-1 shares 96% and 99% amino acid (aa) sequence identity with mouse and rat Oct-1, respectively.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also

be aliquotted and stored frozen at -20 °C for a longer time.Avoid repeated freezing and thawing.

Sequence Similarities

Belongs to the POU transcription factor family. Class- 2 subfamily.

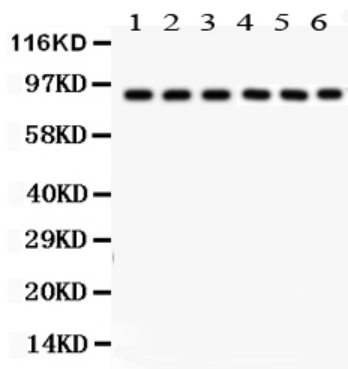
Protein Information

Name	POU2F1
Synonyms	OCT1, OTF1
Function	Transcription factor that binds to the octamer motif (5'- ATTTGCAT-3') and activates the promoters of the genes for some small nuclear RNAs (snRNA) and of genes such as those for histone H2B and immunoglobulins. Modulates transcription transactivation by NR3C1, AR and PGR.
Cellular Location	Nucleus.
Tissue Location	Ubiquitous. Isoform 2 is lymphocyte-specific.

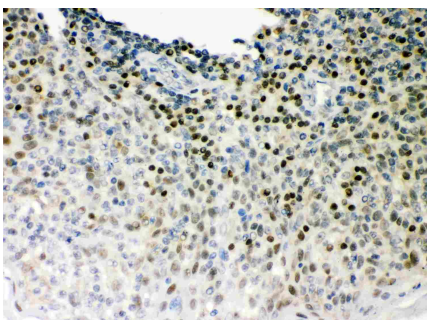
Background

POU domain, class 2, transcription factor 1, also known as OTF1 or OCT1, is a protein that in humans is encoded by the POU2F1 gene. The POU2F1 transcription factor was among the first identified members of the POU transcription factor family. This gene is mapped to 1q24.1 to q24.2. It has been found that the POU dimer from the POU2F1 gene formed on the palindromic OCT factor recognition element, or PORE (ATTTGAAATGCAAAT), could recruit the transcriptional coactivator OBF1 , whereas POU dimers formed on the consensus MORE (more PORE) (ATGCATATGCAT) or on MOREs from immunoglobulin heavy chain promoters (AT[G/A][C/A]ATATGCAA) failed to interact. POU domain proteins contain a bipartite DNA-binding domain divided by a flexible linker that enables them to adopt various monomer configurations on DNA.

Images



Anti- Oct-1 Picoband antibody, ABO12008, Western blottingAll lanes: Anti Oct-1 (ABO12008) at 0.5ug/mlLane 1: Rat Liver Tissue Lysate at 50ugLane 2: Human Placenta Tissue Lysate at 50ugLane 3: JURKAT Whole Cell Lysate at 40ugLane 4: HELA Whole Cell Lysate at 40ugLane 5: A549 Whole Cell Lysate at 40ugLane 6: SMMC Whole Cell Lysate at 40ugPredicted bind size: 90KDObserved bind size: 90KD



Anti- Oct-1 Picoband antibody, ABO12008, IHC(P)IHC(P): Human Tonsil Tissue

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.