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Anti-Oct-1 Picoband Antibody

Catalog # ABO12008

Specification

Anti-Oct-1 Picoband Antibody - 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.

Anti-Oct-1 Picoband Antibody - 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 MW KDa

Application Details
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat
Western blot, 0.1-0.5 µg/ml, Human

Subcellular Localization
Nucleus.

Tissue Specificity
Ubiquitous. Isoform 2 is lymphocyte-specific.

Protein Name
POU domain, class 2, transcription factor 1

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

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 r˚Constitution, 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.

Anti-Oct-1 Picoband Antibody - 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.

Anti-Oct-1 Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-Oct-1 Picoband Antibody - Images

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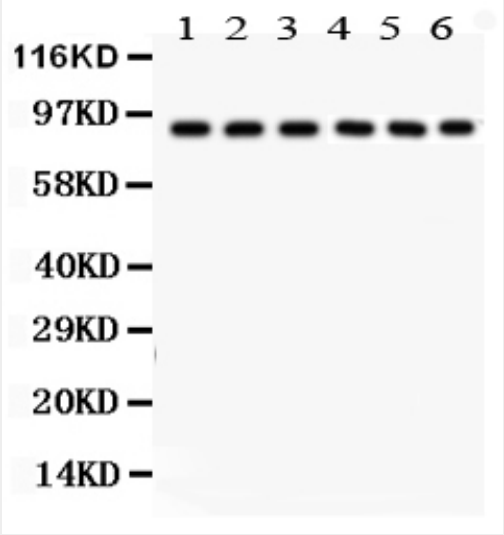
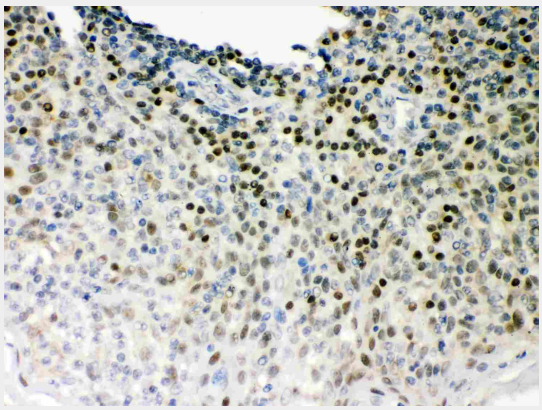


Anti- Oct-1 Picoband antibody, ABO12008, Western blottingAll lanes: Anti Oct-1 (ABO12008) at 0.5ug/mlLane 1: Rat Liver Tissue Lysate at 50ugLane 2: Human Placenta Tissue Lysate at 50ugLane 3: JURKAT Whole Cell Lysate at 40ugLane 4: HELA Whole Cell Lysate at 40ugLane 5: A549 Whole Cell Lysate at 40ugLane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

Anti-Oct-1 Picoband Antibody - 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.