

## anti-Human OCT-1 Polyclonal Antibody | anti-OCT-1 antibody

Anti-Oct-1 Antibody

|                              |                            |                                                           |
|------------------------------|----------------------------|-----------------------------------------------------------|
| CATALOG #<br><b>AAA46515</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>Immunohistochemistry, Western Blot</b> |
|------------------------------|----------------------------|-----------------------------------------------------------|

### PRODUCT SYNONYMS

OCT-1; Polyclonal Antibody; Anti-Oct-1 Antibody; POU domain; class 2; transcription factor 1; FLJ42836; NF A1; NF-A1; Oct 1; Oct 1B; Oct-1; OCT1; Octamer binding protein 1; Octamer binding transcription factor 1; Octamer-binding protein 1; Octamer-binding transcription factor 1; OTF 1; OTF-1; OTF1; OTTHUMP00000032348; OTTHUMP00000032350; OTTHUMP00000032351; PO21; PO2F1; PO2F1\_HUMAN; POU class 2 homeobox 1; POU domain class 2 transcription factor 1; POU2F1; anti-OCT-1 antibody

### PRODUCT SPECIFICATIONS

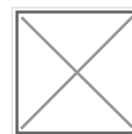
|                                                 |                                                                                                                                                                                                     |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                                      | Human                                                                                                                                                                                               |
| Clonality                                       | Polyclonal                                                                                                                                                                                          |
| Purity/Purification                             | Immunogen Affinity Purified                                                                                                                                                                         |
| Form/Format                                     | Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.                                                                                                                    |
| Sequence Length                                 | 755                                                                                                                                                                                                 |
| Applicable Applications for anti-OCT-1 antibody | IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                                                       |
| 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.                       |
| Ig Type                                         | Rabbit IgG                                                                                                                                                                                          |
| Reconstitution                                  | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                                                                                                                |
| Preparation and Storage                         | At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing. |

### IMAGES



#### IHC (Immunohistochemistry)

Anti- Oct-1 Picoband antibody, AAA46515, IHC(P)IHC(P): Human Tonsil Tissue



#### WB (Western Blot)

Anti- Oct-1 Picoband antibody, AAA46515, Western blottingAll lanes: Anti Oct-1 (AAA46515) 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

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-OCT-1 antibody | <p>Description: Rabbit IgG polyclonal antibody for POU domain, class 2, transcription factor 1(POU2F1) detection. Tested with WB, IHC-P in Human.</p> <p>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.</p> |
| References                                          | <p>1. Hsieh, C.-L., Sturm, R., Herr, W., Francke, U. The gene for the ubiquitous octamer-binding protein Oct-1 is on human chromosome 1, region cen-q32, and near Ly-22 and Ltw-4 on mouse chromosome 1. Genomics 6: 666-672, 1990. 2. Tomilin, A., Remenyi, A., Lins, K., Bak, H., Leidel, S., Vriend, G., Wilmanns, M., Scholer, H. R.Synergism with the coactivator OBF-1 (OCA-B, BOB-1) is mediated by a specific POU dimer configuration. Cell 103: 853-864, 2000. 3. Roberts S, Segil N, Heintz N (October 1991). "Differential phosphorylation of the transcription factor Oct1 during the cell cycle". Science 253 (5023): 1022-6.</p>                                                                                                                                                                                                                                                                                                                                                               |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                        |
|----------------------------------|------------------------------------------------------------------------|
| NCBI GI #                        | 311771667                                                              |
| NCBI GeneID                      | 5451                                                                   |
| NCBI Accession #                 | NP_001185712.1                                                         |
| NCBI GenBank Nucleotide #        | NM_001198783.1                                                         |
| UniProt Accession #              | P14859; Q5TBT7; Q6PK46; Q8NEU9; Q9BPV1; B1AL91; B1AL93; B4E029; J3KP77 |
| Molecular Weight                 | 72,082 Da                                                              |
| NCBI Official Full Name          | POU domain, class 2, transcription factor 1 isoform 2                  |
| NCBI Official Synonym Full Names | POU class 2 homeobox 1                                                 |
| NCBI Official Symbol             | POU2F1                                                                 |
| NCBI Official Synonym Symbols    | OCT1; OTF1; oct-1B                                                     |
| NCBI Protein Information         | POU domain, class 2, transcription factor 1                            |
| UniProt Protein Name             | POU domain, class 2, transcription factor 1                            |
| UniProt Gene Name                | POU2F1                                                                 |
| UniProt Synonym Gene Names       | OCT1; OTF1; Oct-1; OTF-1                                               |
| UniProt Entry Name               | PO2F1_HUMAN                                                            |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/oct-1-antibody-immunohistochemistry-western-blot-elisa/46515>