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Oct-2 Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10424

Specification

Oct-2 Antibody - Product Information

Application	**WB**
Primary Accession	P09086
Other Accession	AAA59978
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**51209**

Oct-2 Antibody - Additional Information

Gene ID 5452

Application & Usage

Western blotting (0.5-4 µg/ml). However, the optimal conditions should be determined individually. The antibody recognizes ~52 kDa Oct-2 in samples from human, mouse, and rat origins. Reactivity to other species has not been tested.

Other Names
OCT2 , OTF2 , Oct-2 , POU2F2

Target/Specificity
Oct-2

Antibody Form
Liquid

Appearance
Colorless liquid

Formulation
100 µg (0.5 mg/ml) purified rabbit polyclonal antibody in phosphate-buffered saline (PBS) containing 30% glycerol, 0.5% BSA and 0.01% thimerosal.

Handling
The antibody solution should be gently mixed before use.

Reconstitution & Storage
-20 °C

Background Descriptions

Precautions
Oct-2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Oct-2 Antibody - Protein Information

Name POU2F2 (HGNC:9213)

Synonyms OCT2, OTF2

Function
Transcription factor that specifically binds to the octamer motif (5'-ATTTGCAT-3') (PubMed:2904654, PubMed:7859290). Regulates IL6 expression in B cells with POU2AF1 (By similarity). Regulates transcription in a number of tissues in addition to activating immunoglobulin gene expression (PubMed:2901913, PubMed:2904654). Modulates transcription transactivation by NR3C1, AR and PGR (PubMed:10480874).

Cellular Location
Cytoplasm. Nucleus.

Tissue Location
Isoform 3 is B-cell specific. Isoform 5 is expressed in B-cells and the immunoglobulin-expressing T-cell line MOLT-4, but not in the T-cell line BW5147.

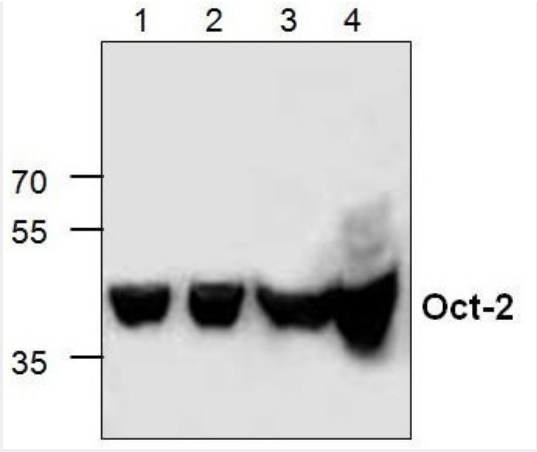
Oct-2 Antibody - Protocols

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

Oct-2 Antibody - Images

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Western blot analysis of Oct-2 expression in lysates from Jurkat cells (Lane 1& 2), 3T3 cells (Lane 3) and rat kidney (Lane4).

Oct-2 Antibody - Background

Members of Oct family of transcription factors specifically interact with Octamer motif ATGCAAAT, a regulatory element important for tissue- and cell-specific transcription as well as for transcription of a number of housekeeping genes. All of the members of the Oct family contain two highly conserved domains which are separated by 14-26 variable amino acids. These include the POU homeodomain and the POU-specific domain. Both are required for DNA binding and are involved in protein-protein interactions. Evidences indicate that regulation of Oct family transcription factors occurs at the level of phosphorylation.