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Oct-1 Antibody

Store at -20C
#4428

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 90	Source/Isotype: Rabbit	UniProt ID: #P14859	Entrez-Gene Id: 5451
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Product Usage Information

Application

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

Oct-1 Antibody detects endogenous levels of total Oct-1 protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to amino acids surrounding Leu362 of human Oct-1. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Oct-1 (POU2F1) is a ubiquitously expressed, octamer-binding transcription factor containing a POU domain with a homeobox subdomain (1). Oct-1 has been shown to interact with several transcription factors in mediating specific gene expression, including SNAPc (2), OBF-1 (a B-cell transcriptional coactivator protein) (3), TFIIB (4), and TBP (TATA-box-binding protein) (5). Its POU DNA-binding domain allows Oct-1 the flexibility to facilitate the binding and recruitment of several tissue-specific cofactors to either positively or negatively regulate a variety of genes, exerting an important role in development (6).

Background References

1. Sturm, R.A. et al. (1988) *Genes Dev* 2, 1582-99.
2. Mittal, V. et al. (1996) *Mol Cell Biol* 16, 1955-65.
3. Strubin, M. et al. (1995) *Cell* 80, 497-506.
4. Nakshatri, H. et al. (1995) *J Biol Chem* 270, 19613-23.
5. Zwilling, S. et al. (1994) *Nucleic Acids Res* 22, 1655-62.
6. Schonemann, M.D. et al. (1998) *Adv Exp Med Biol* 449, 39-53.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human

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