



OCT-1 (POU2F1, POU Class 2 Homeobox 1, NF-A1, Octamer-binding Transcription Factor 1, OCT1, POU Domain, Class 2, Transcription Factor 1 OTF1, OTF-1)

Catalog number

P5250-01E

Supplier

United States Biological

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).

Applications

Suitable for use in Western Blot. Other applications not tested.

Recommended Dilution

Western Blot: 1:1000, incubate membrane with diluted antibody in 5% BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.

Optimal dilutions to be determined by the researcher.

Storage and Stability

May be stored at 4°C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20°C. Aliquots are stable for 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.

Immunogen

Synthetic peptide corresponding to amino acids surrounding Leu362 of human Oct-1. Uniprot Accession: P14859

Formulation

Supplied as a liquid in 10mM HEPES, pH 7.5, 150mM sodium chloride, 0.1mg/ml BSA, 50% glycerol.

Purity

Purified by Protein A and peptide affinity chromatography.

Specificity

Recognizes endogenous levels of human total Oct-1.

Product Type

Pab

Source



human

Isotype

IgG

Grade

Affinity Purified

Applications

WB

Crossreactivity

Hu

Storage

-20°C

MW

90

Reference

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.