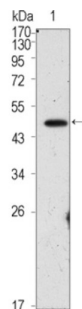


POU Class 5 Homeobox 1 / OCT4 (POU5F1) Antibody

Catalogue No.: abx016044



Western blot analysis using OCT4 antibody against PMA treated HepG2 cell lysate (1).

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. Evidence indicates that regulation of Oct family transcription factors occurs at the level of phosphorylation. Oct4 is renowned as a transcription factor expressed by undifferentiated embryonic stem cells and embryonic germ cells.

Target: POU Class 5 Homeobox 1 / OCT4 (POU5F1)

Clonality: Monoclonal

Reactivity: Human

Tested Applications: ELISA

Host: Mouse

Recommended dilutions: ELISA: 1/10000. Optimal dilutions/concentrations should be determined by the end user.

Conjugation: Unconjugated

Immunogen: Purified recombinant fragment of OCT4 expressed in E. coli.

Isotype: IgG₁

Form: Liquid

Purification: Unpurified ascites.

Storage: Aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.

UniProt Primary AC: Q01860 ([UniProt](#), [ExPASy](#))

Datasheet

Version: 4.0.0

Revision date: 05 Aug 2025



Gene Symbol: POU5F1

GeneID: [5460](#)

OMIM: [164177](#)

HGNC: 9221

KEGG: hsa:5460

Ensembl: ENSG00000204531

String: [9606.ENSP00000259915](#)

Molecular Weight: 39 kDa

Buffer: Ascitic fluid containing 0.03% sodium azide.

Concentration: Not determined.

Note: THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.

For Reference Only