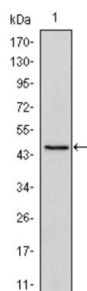


## POU Class 5 Homeobox 1 / OCT4 (POU5F1) Antibody

Catalogue No.: abx016070



Western blot analysis using Oct4 antibody against NTERA-2 cell lysate (1).

This gene encodes a transcription factor containing a POU homeodomain. This transcription factor plays a role in embryonic development, especially during early embryogenesis, and it is necessary for embryonic stem cell pluripotency. A translocation of this gene with the Ewing's sarcoma gene, t (6;22) (p21;q12), has been linked to tumor formation. Alternative splicing, as well as usage of alternative translation initiation codons, results in multiple isoforms, one of which initiates at a non-AUG (CUG) start codon. Related pseudogenes have been identified on chromosomes 1, 3, 8, 10, and 12. (provided by RefSeq). Tissue specificity: Expressed in developing brain. Highest levels found in specific cell layers of the cortex, the olfactory bulb, the hippocampus and the cerebellum. Low levels of expression in adult tissues.

<b>Target:</b>	POU Class 5 Homeobox 1 / OCT4 (POU5F1)
<b>Clonality:</b>	Monoclonal
<b>Reactivity:</b>	Human
<b>Tested Applications:</b>	ELISA, WB
<b>Host:</b>	Mouse
<b>Recommended dilutions:</b>	ELISA: 1/10000, WB: 1/500 - 1/2000. Optimal dilutions/concentrations should be determined by the end user.
<b>Conjugation:</b>	Unconjugated
<b>Immunogen:</b>	Synthesized peptide of human Oct4.
<b>Isotype:</b>	IgG <sub>1</sub>
<b>Form:</b>	Liquid
<b>Purification:</b>	Unpurified ascites.
<b>Storage:</b>	Aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.

# Datasheet

Version: 4.0.0  
Revision date: 03 Sep 2025



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

**Gene Symbol:** POU5F1

**GeneID:** [5460](#)

**OMIM:** [164177](#)

**HGNC:** 9221

**KEGG:** hsa:5460

**Ensembl:** ENSG00000204531

**String:** [9606.ENSP00000259915](#)

**Molecular Weight:** 45 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.