

Oct-4 Blocking Peptide
Catalog # PBV10242b**Specification**

Oct-4 Blocking Peptide - Product Information

Primary Accession	P20263
Gene ID	18999
Calculated MW	38216

Oct-4 Blocking Peptide - Additional Information**Gene ID** 18999**Application & Usage**

The peptide is used for blocking the antibody activity of Oct-4. It usually blocks the antibody activity completely in Western blot analysis by incubating the peptide with equal volume of antibody for 30-60 minutes at 37°C.

Other Names

POU domain, class 5, transcription factor 1, NF-A3, Octamer-binding protein 3, Oct-3, Octamer-binding protein 4, Oct-4, Octamer-binding transcription factor 3, OTF-3, Pou5f1, Oct-3, Oct-4, Otf-3, Otf3

Target/Specificity

40455

Formulation

50 µg (0.5 mg/ml) in phosphate buffered saline (PBS), pH 7.2, containing 50% glycerol, 1% BSA and 0.02% thimerosal.

Reconstitution & Storage

-20 °C

Background Descriptions**Precautions**

Oct-4 Blocking Peptide is for research use only and not for use in diagnostic or therapeutic procedures.

Oct-4 Blocking Peptide - Protein Information**Name** Pou5f1**Synonyms** Oct-3, Oct-4, Otf-3, Otf3**Function**

Transcription factor that binds to the octamer motif (5'- ATTTGCAT-3') (PubMed:1972777, PubMed:1690859, PubMed:1967980, PubMed:17525163, PubMed:23376973). Forms a trimeric complex with SOX2 or SOX15 on DNA and controls the expression of a number of genes involved in embryonic development such as YES1, FGF4, UTF1 and ZFP206 (PubMed:15863505, PubMed:17097055, PubMed:17496161, PubMed:19740739). Critical for early embryogenesis and for embryonic stem cell pluripotency (PubMed:1972777, PubMed:1690859, PubMed:17496161, PubMed:18662995, PubMed:19740739, PubMed:29153991, PubMed:23376973, PubMed:32703285).

Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:Q01860}. Nucleus {ECO:0000255|PROSITE-ProRule:PRU00108, ECO:0000255|PROSITE- ProRule:PRU00530, ECO:0000269|PubMed:17496161, ECO:0000269|PubMed:17525163, ECO:0000269|PubMed:29153991} Note=Expressed in a diffuse and slightly punctuate pattern (By similarity). Colocalizes with MAPK8 and MAPK9 in the nucleus (PubMed:29153991). {ECO:0000250|UniProtKB:Q01860, ECO:0000269|PubMed:29153991}

Tissue Location

Expressed the totipotent and pluripotent stem cells of the pregastrulation embryo. Also expressed in primordial germ cells and in the female germ line. Absent from adult tissues

Oct-4 Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Oct-4 Blocking Peptide - Images