



## Product datasheet

### Mouse Anti-OCT4 (MM128)

## Overview

<b>Product name</b>	Anti-Human OCT4
<b>Host species</b>	Mouse
<b>Target species</b>	Human
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, WB, ELISA, Immunomicroscopy, Dot blot, ICC, IHC-Fr
<b>Immunogen</b>	A KLH-conjugated synthetic peptide derived from human Oct-4 (octamer-binding transcription factor 4) protein was used for immunization.
<b>Conjugation</b>	Unconjugated

## Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4 °C. Store at -20 °C. Avoid freeze/thaw cycle. Please see notes section.
<b>Storage buffer</b>	Phosphate buffered saline pH 7.4, contains stabilizer and ≤0.09% sodium azide.
<b>Purity</b>	immunogen affinity purified
<b>Purification notes</b>	This product was prepared by immunoaffinity chromatography using immunogen peptide coupled to Sepharose 4B.
<b>Conjugation notes</b>	-
<b>Clonality</b>	Monoclonal
<b>Isotype</b>	IgG
<b>General notes</b>	For extended storage aliquot contents and freeze at -20 °C or below. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4 °C as an undiluted liquid. Dilute only prior to immediate use.

Our customer's feedback says the antibody worked great. If in case the antibody fails to give results then please contact our scientific support team for assistance.

## Applications

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end-user.

### Product Usage Information:

#### Application Dilutions

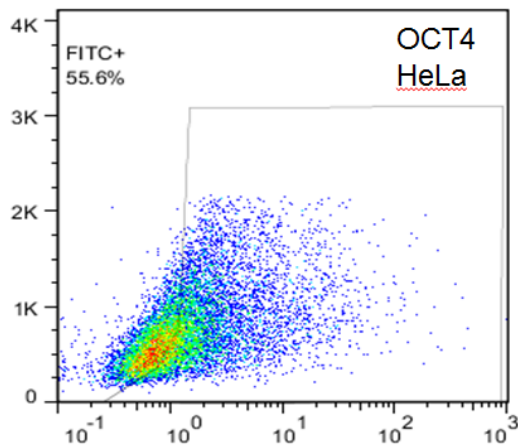
Western Blotting	3-5 ug/ml
Immunohistochemistry (Paraffin)	5-10 ug/ml
Immunohistochemistry (Frozen)	5-10 ug/ml
Immunofluorescence	5-10 ug/ml
Flow Cytometry	5-10 ug/ml

**Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"**

### Background:

Oct-4 (octamer-binding transcription factor 4), also known as POU5F1 (POU domain, class 5, transcription factor 1), is a protein that in humans is encoded by the POU5F1 gene. Oct-4 is a homeodomain transcription factor of the POU family. It is critically involved in the self-renewal of undifferentiated embryonic stem cells. As such, it is frequently used as a marker for undifferentiated cells. Oct-4 expression must be closely regulated; too much or too little will cause differentiation of the cells.

### References:



**Figure 1. Flow cytometry assay.**

Note: This product has originally been developed at Avicenna Research Institute, Tehran, IRAN and assigned to PADZA Company according to contract 98/15/191dated 98/01/10.