

OCT4 Monoclonal Antibody

ORDERING INFORMATION

Catalog no.: 11302

Format: 100ug lyophilized from purified antibody in 10mM PBS, pH 7.4, 1.0% bovine serum albumin (BSA).

BACKGROUND

OCT4 (octamer-binding transcription factor 4) is a protein that in humans is encoded by the *POU5F1* gene. It is involved in the self-renewal of undifferentiated embryonic stem cells and is frequently used as a marker for undifferentiated cells. OCT4 is a member of the octamer transcription factor family, so named because they bind the octameric (8-unit) DNA nucleotide sequence ATTTGCAT. OCT4 can form a heterodimer with SOX2, so that these two proteins bind DNA together.

SPECIFICATION SUMMARY

Antigen: Recombinant human OCT4 protein.

Accession no.: Q01860

Gene ID: 5460

Antibody Class: IgG2b

Clone no.: 1312F

Host Species: Mouse

Specificity: This antibody recognizes human OCT4.

APPLICATIONS

Immunoblotting: use at 1-5ug/ml under reducing conditions. A band of ~38kDa is detected.

Immunofluorescence: use at 0.2-1ug/ml.

These are recommended concentrations. Endusers should determine optimal concentrations for their applications.

RECONSTITUTION INSTRUCTIONS

Dissolve the lyophilized antibody in 50ul of distilled water (final concentration 2.0mg/ml) for stock solution. Dilute the stock solution in 10mM PBS, pH 7.4 + 1.0% BSA immediately before use.

STORAGE AND STABILITY

Store the stock solution at a minimum concentration of 2.0mg/ml. A lower concentration may result in decreased stability. Store stock solution at -20°C for at least one (1) year; avoid multiple freeze-thaw cycles. Add 0.1% sodium azide in order to store stock solution at 4°C. Diluted antibody should not be stored.

For in vitro investigational use only. Not intended for therapeutic or diagnostic procedures.