# OCT6 (S-14): sc-132398



The Power to Question

## **BACKGROUND**

Organic cation transporters (OCT) are expressed in the plasma membrane of epithelial cells from a wide range of tissues, where they function in the elimination of endogenous amines and cationic drugs as well as other exogenous xenobiotics. The structure of OCT family member proteins consists of a 12-transmembrane-domain structure and a large extracellular hydrophilic loop. In humans, OCT1 is primarily expressed in the liver, while OCT2 is expressed in the kidney. OCT3 is expressed in the placenta, skeletal muscle, prostate, aorta and liver. OCT6 is highly expressed in testis and fetal liver. OCT6 also displays high expression in human hematopoietic tissues, including CD34+cells and leukemias making OCT6 a potential therapeutic target for the treatment of leukemia.

# **REFERENCES**

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- Gong, S., Lu, X., Xu, Y., Swiderski, C.F., Jordan, C.T. and Moscow, J.A. 2002. Identification of OCT6 as a novel organic cation transporter preferentially expressed in hematopoietic cells and leukemias. Exp. Hematol. 30: 1162-1169.

#### CHROMOSOMAL LOCATION

Genetic locus: SLC22A16 (human) mapping to 6q21.

## **SOURCE**

OCT6 (S-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of OCT6 of human origin.

## **PRODUCT**

Each vial contains 200  $\mu g$  lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-132398 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

# **STORAGE**

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

#### **APPLICATIONS**

OCT6 (S-14) is recommended for detection of OCT6 isoforms 1, 2 and 3 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other OCT family members.

Suitable for use as control antibody for OCT6 siRNA (h): sc-95071, OCT6 shRNA Plasmid (h): sc-95071-SH and OCT6 shRNA (h) Lentiviral Particles: sc-95071-V.

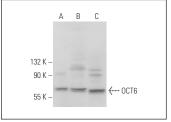
Molecular Weight of OCT6: 58 kDa.

Positive Controls: U-87 MG cell lysate: sc-2411, Hep G2 cell lysate: sc-2227 or NCI-H460 whole cell lysate: sc-364235.

## **RECOMMENDED SECONDARY REAGENTS**

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

#### **DATA**



OCT6 (S-14): sc-132398. Western blot analysis of OCT6 expression in U-87 MG (**A**), Hep G2 (**B**) and NCI-H460 (**C**) whole cell lysates.

# **RESEARCH USE**

For research use only, not for use in diagnostic procedures.



Try **OCT6 (H-6): sc-390056**, our highly recommended monoclonal alternative to OCT6 (S-14).

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