

Human Octamer Binding Transcription Factor 4 (OCT4) ELISA Kit | OCT4 elisa kit

Human Octamer Binding Transcription Factor 4 (OCT4) ELISA Kit

CATALOG #
AAA140903

REACTIVITY
Human

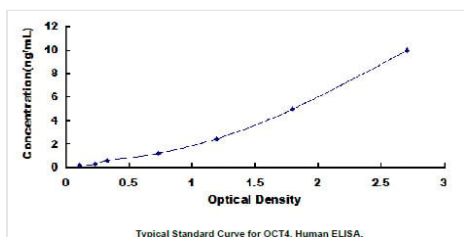
PRODUCT SYNONYMS

Octamer Binding Transcription Factor 4 (OCT4); Human Octamer Binding Transcription Factor 4 (OCT4) ELISA Kit; POU5F1; OCT3; OTF3; OTF4; Octamer-4; POU Domain Class 5 Transcription Factor 1; POU Class 5 Homoeobox 1; Octamer-binding protein 3; OCT4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of OCT4. No significant cross-reactivity or interference between OCT4 and analogues was observed.
Sequence Length	360
Assay Type	Double-antibody Sandwich
Samples	Tissue homogenates, Cell lysates and other biological fluids
Detection Range	0.156-10ng/mL
Sensitivity	0.057ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level OCT4 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level OCT4 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for OCT4 elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of OCT4 in human tissue homogenates, cell lysates and other biological fluids. Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to OCT4. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to OCT4. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain OCT4, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of OCT4 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for OCT4 elisa kit	Signal transduction; Developmental science

NCBI AND UNIPROT INFORMATION

NCBI GI #	124295259
NCBI GeneID	100101567
Molecular Weight	38,497 Da
NCBI Official Full Name	octamer binding transcription factor 4
NCBI Official Symbol	POU5F1
NCBI Official Synonym Symbols	OCT3; OCT4; OTF3; OTF4
NCBI Protein Information	POU domain, class 5, transcription factor 1
UniProt Protein Name	POU domain protein
UniProt Gene Name	POU5F1
UniProt Entry Name	A2ICN2_RABIT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.