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Datasheet for ABIN5526748 OCT4 ELISA Kit

2 Images



Overview

Quantity:	96 tests
Target:	OCT4 (POU5F1)
Reactivity:	Human
Method Type:	DNA-Binding ELISA
Application:	ELISA
Product Details	
Purpose:	Human OCT4 Transcription Factor Activity Assay. This assay uses a dsDNA coated plate with canonical OCT4 binding sequences to semi-quantitatively detect active OCT4 in lysates or nuclear extracts. Only available in North America.
Sample Type:	Cell Lysate, Nuclear Extract
Analytical Method:	Semi-Quantitative
Detection Method:	Colorimetric
Specificity:	The olionucleotide/antibody pair provided in this kit recognizes human OCT4 in whole lysates and nuclear extracts.
Characteristics:	 Specific transcription factor-DNA binding assay Perfect alternative to EMSA Easy to perform in an ELISA format Non-radioactive assay High throughput (96 well plate format) Assay can be completed within 5 hours

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Product Details

Components:	96-well Strip Microplate pre-coated with DNA probesDNA Binding Buffer
	Positive Control Sample
	Specific Competitor DNA probe
	Non-specific Competitor DNA probe
	Assay Reagent
	• DTT
	Wash Buffer
	Primary Antibody
	HRP-conjugated Secondary Antibody
	TMB One-Step Substrate Reagent
	Stop Solution
Material not included:	Distilled or deionized water
	 100 mL and 1 liter graduated cylinders
	Tubes to prepare sample dilutions
	Absorbent paper
	 Precision pipettes to deliver 2 µL to 1 mL volumes
	 Adjustable 1-25 mL pipettes for reagent preparation
	Benchtop rocker or shaker
	 Microplate reader capable of measuring absorbance at 450 nm

Target Details

Target:	OCT4 (POU5F1)
Alternative Name:	OCT4 (POU5F1 Products)
Gene ID:	5460
UniProt:	Q01860
Pathways:	Stem Cell Maintenance

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Plate:	Pre-coated
Protocol:	1. Prepare all reagents and samples as instructed in the manual.
	 Add 100 μL of sample or positive control to each well. Incubate 2 h at RT or O/N at 4 °C.
	 Add 100 μL of prepared primary antibody to each well.
	5. Incubate 1 h at RT.

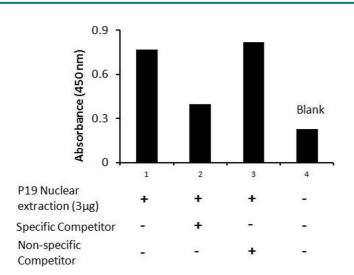
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	6. Add 100 μ L of prepared HRP-secondary antibody to each well.
	7. Incubate 1 h at RT.
	8. Add 100 μ L of TMB One-Step Substrate Reagent to each well.
	9. Incubate 30 min at RT.
	10. Add 50 μL of Stop Solution to each well.
	11. Read at 450 nm immediately.
Restrictions:	For Research Use only
Handling	
Storage:	-20 °C
Storage Comment:	Upon receipt, the positive control should be removed and stored at -20° or -80°C. The remainde
	of the kit can be stored for up to 6 months at 2-8°C from the date of shipment. Opened
	Microplate Wells or reagents may be stored for up to 1 month at 2° to 8°C. Return unused wells
	to the pouch containing desiccant pack, reseal along entire edge. Note: The kit can be used
	within one year if the whole kit is stored at -20°C upon receipt. Avoid repeated freeze-thaw
	cycles.
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Expiry Date:

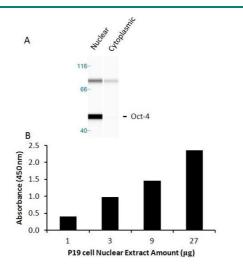
6 months

Images



Activity Assay

Image 1. TrTranscription factor activity assay of Oct4 from nuclear extracts of P19 cells with the specific competitor or non-specific competitor. The result shows specific binding of Oct4 to the conserved DNA binding site.



Activity Assay

Image 2. Transcription factor activity assay of Oct4 from nuclear extracts of P19 cells. A. Western-blot result of Oct4 from cytoplasm and nuclear fractions. B. Transcription factor activity assay of Oct4 from nuclear fractions with the Oct4 Transcription Factor Activity Assay Kit.

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