

Datasheet for ABIN5526712

**Nanog ELISA Kit****2** Images[Go to Product page](#)

## Overview

Quantity:	96 tests
Target:	Nanog (NANOG)
Reactivity:	Human
Method Type:	DNA-Binding ELISA
Application:	ELISA

## Product Details

Purpose:	Human NANOG Transcription Factor Activity Assay. This assay uses a dsDNA coated plate with canonical NANOG binding sequences to semi-quantitatively detect active NANOG 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 oligonucleotide/antibody pair provided in this kit recognizes human NANOG in whole lysates and nuclear extracts.
Characteristics:	<ul style="list-style-type: none"><li>• Specific transcription factor-DNA binding assay</li><li>• Perfect alternative to EMSA</li><li>• Easy to perform in an ELISA format</li><li>• Non-radioactive assay</li><li>• High throughput (96 well plate format)</li><li>• Assay can be completed within 5 hours</li></ul>

## Product Details

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Components:	<ul style="list-style-type: none"><li>• 96-well Strip Microplate pre-coated with DNA probes</li><li>• DNA Binding Buffer</li><li>• Positive Control Sample</li><li>• Specific Competitor DNA probe</li><li>• Non-specific Competitor DNA probe</li><li>• Assay Reagent</li><li>• DTT</li><li>• Wash Buffer</li><li>• Primary Antibody</li><li>• HRP-conjugated Secondary Antibody</li><li>• TMB One-Step Substrate Reagent</li><li>• Stop Solution</li></ul>
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Material not included:	<ul style="list-style-type: none"><li>• Distilled or deionized water</li><li>• 100 mL and 1 liter graduated cylinders</li><li>• Tubes to prepare sample dilutions</li><li>• Absorbent paper</li><li>• Precision pipettes to deliver 2 µL to 1 mL volumes</li><li>• Adjustable 1-25 mL pipettes for reagent preparation</li><li>• Benchtop rocker or shaker</li><li>• Microplate reader capable of measuring absorbance at 450 nm</li></ul>
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## Target Details

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Target:	Nanog (NANOG)
Alternative Name:	NANOG ( <a href="#">NANOG Products</a> )
Gene ID:	79923
UniProt:	<a href="#">Q9H9S0</a>
Pathways:	<a href="#">Stem Cell Maintenance</a>

## Application Details

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Application Notes:	Optimal working dilution should be determined by the investigator.
Plate:	Pre-coated
Protocol:	<ol style="list-style-type: none"><li>1. Prepare all reagents and samples as instructed in the manual.</li><li>2. Add 100 µL of sample or positive control to each well.</li><li>3. Incubate 2 h at RT or O/N at 4 °C.</li><li>4. Add 100 µL of prepared primary antibody to each well.</li><li>5. Incubate 1 h at RT.</li></ol>

## Application Details

6. Add 100  $\mu\text{L}$  of prepared HRP-secondary antibody to each well.
7. Incubate 1 h at RT.
8. Add 100  $\mu\text{L}$  of TMB One-Step Substrate Reagent to each well.
9. Incubate 30 min at RT.
10. Add 50  $\mu\text{L}$  of Stop Solution to each well.
11. Read at 450 nm immediately.

Restrictions: For Research Use only

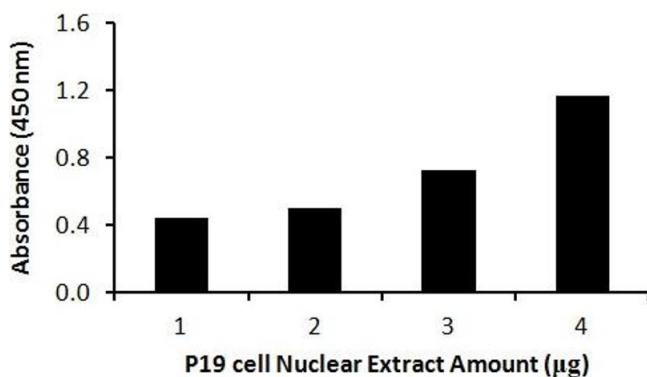
## Handling

Storage:  $-20^{\circ}\text{C}$

Storage Comment: Upon receipt, the positive control should be removed and stored at  $-20^{\circ}$  or  $-80^{\circ}\text{C}$ . The remainder of the kit can be stored for up to 6 months at  $2-8^{\circ}\text{C}$  from the date of shipment. Opened Microplate Wells or reagents may be stored for up to 1 month at  $2^{\circ}$  to  $8^{\circ}\text{C}$ . 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  $-20^{\circ}\text{C}$  upon receipt. Avoid repeated freeze-thaw cycles.

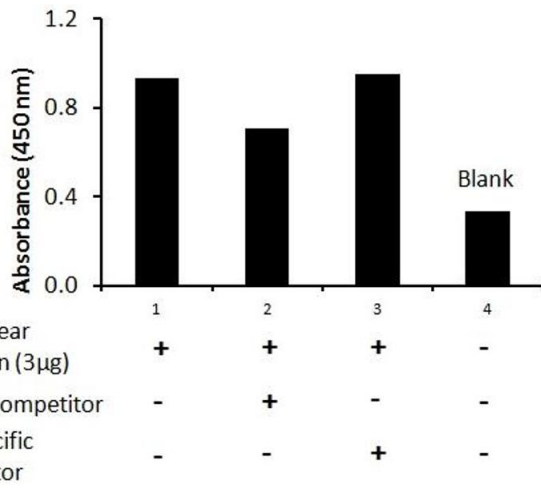
Expiry Date: 6 months

## Images



### Activity Assay

**Image 1.** Transcription factor activity assay of Nanog from nuclear extracts of P19 cells with the Nanog TF-Activity Assay Kit.



### Activity Assay

**Image 2.** Transcription factor activity assay of Nanog from nuclear extracts of P19 cells with the specific competitor or non-specific competitor. The result shows specific binding of Nanog to the conserved DNA binding site.