

Datasheet for ABIN5526732
SOX2 ELISA Kit

2 Images

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Overview

Quantity: 96 tests

Target: SOX2

Reactivity: Human

Method Type: DNA-Binding ELISA

Application: ELISA

Product Details

Purpose: Human SOX2 Transcription Factor Activity Assay. This assay uses a dsDNA coated plate with canonical SOX2 binding sequences to semi-quantitatively detect active SOX2 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 SOX2 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

Product Details

Components:	<ul style="list-style-type: none">• 96-well Strip Microplate pre-coated with DNA probes• DNA 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
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Material not included:	<ul style="list-style-type: none">• 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
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Target Details

Target:	SOX2
Alternative Name:	SOX2 (SOX2 Products)
Gene ID:	6657
UniProt:	P48431
Pathways:	Dopaminergic Neurogenesis , Sensory Perception of Sound , Stem Cell Maintenance , Cell RedoxHomeostasis

Application Details

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

Application Details

- 5. Incubate 1 h at RT.
- 6. Add 100 µL of prepared HRP-secondary antibody to each well.
- 7. Incubate 1 h at RT.
- 8. Add 100 µL 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

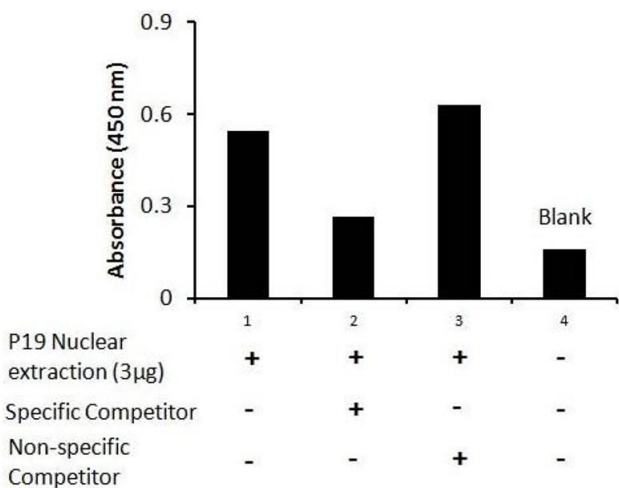
Handling

Storage: -20 °C

Storage Comment: Upon receipt, the positive control should be removed and stored at -20° or -80°C. The remainder 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.

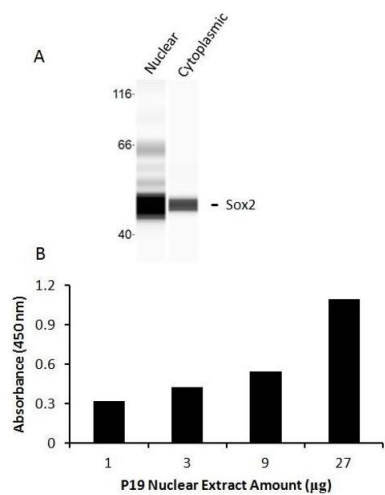
Expiry Date: 6 months

Images



Activity Assay

Image 1. Transcription factor activity assay of SOX2 from nuclear extracts of P19 cells with the specific competitor or non-specific competitor. The result shows specific binding of SOX2 to the conserved DNA binding site.



Activity Assay

Image 2. Transcription factor activity assay of SOX2 from nuclear extracts of P19 cells. A. Western-blot result of SOX2 from cytoplasm and nuclear fractions. B. Transcription factor activity assay of SOX2 from nuclear fractions with the SOX2 Transcription Factor Activity Assay Kit.