

Datasheet for ABIN5690755

GATA3 ELISA Kit

2 Images



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Overview

Quantity:	96 tests
Target:	GATA3
Reactivity:	Human
Method Type:	DNA-Binding ELISA
Application:	ELISA

Product Details

Purpose:	Human GATA-3 Transcription Factor Activity Assay. This assay uses a dsDNA coated plate with canonical GATA3 binding sequences to semi-quantitatively detect active GATA3 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 GATA-3 in whole lysates and nuclear extracts.
Characteristics:	<ul style="list-style-type: none">• 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:	GATA3
Alternative Name:	GATA3 (GATA3 Products)
Gene ID:	2625
UniProt:	P23771
Pathways:	Hormone Transport , Regulation of Hormone Metabolic Process , Tube Formation

Application Details

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

Application Details

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 μ L of Stop Solution to each well.
11. Read at 450 nm immediately.

Restrictions: For Research Use only

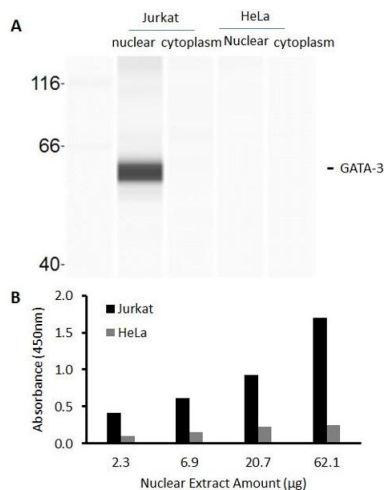
Handling

Storage: 4 °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.

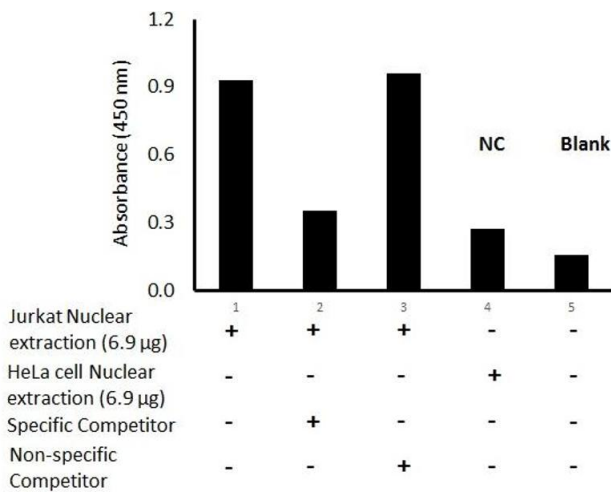
Expiry Date: 6 months

Images



Activity Assay

Image 1. Transcription factor activity assay of GATA-3 from nuclear extracts of Jurkat cells or HeLa cells. In Jurkat cells, activated GATA-3 is translocated into the nucleus where it binds with its corresponding DNA. A. Western-blot result of GATA-3 from cytoplasmic and nuclear fractions. B. Transcription factor activity assay of GATA-3 from nuclear fractions with the GATA-3 Transcription Factor-Activity Assay Kit.



Activity Assay

Image 2. Transcription factor activity assay of GATA-3 from nuclear extracts of Jurkat cells or HeLa cells with the specific competitor or non-specific competitor. The result shows specific binding of GATA-3 to the GATA conserved binding site detected by using the GATA-3 Transcription Factor-Activity Assay Kit.