Datasheet for ABIN5690754

GATA1 ELISA Kit

2 Images

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Overview

Quantity:	96 tests
Target:	GATA1
Reactivity:	Human
Method Type:	DNA-Binding ELISA
Application:	ELISA

Product Details

Purpose:	Human GATA-1 Transcription Factor Activity Assay. This assay uses a dsDNA coated plate with canonical GATA1 binding sequences to semi-quantitatively detect active GATA1 in lysates or nuclear extracts.
Sample Type:	Cell Lysate, Nuclear Extract
Analytical Method:	Semi-Quantitative
Detection Method:	Colorimetric
Specificity:	The olionucleotide/antibody pair provided in this kit recognizes human GATA-1 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:	• 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
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:	GATA1
Alternative Name:	GATA1 (GATA1 Products)
Gene ID:	2623
UniProt:	P15976
Pathways:	Cellular Response to Molecule of Bacterial Origin

Application Details

Plate:	Pre-coated
Protocol:	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

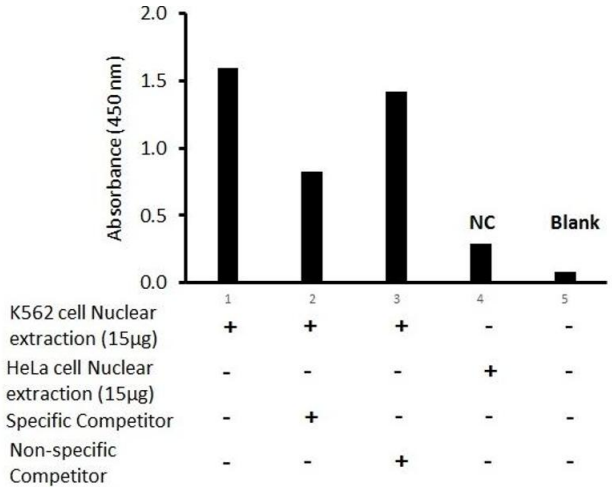
7. Incubate 1 h at RT.
8. Add 100 µL of TMB One-Step Substrate Reagent to each well.
9. Incubate 30 min at RT.
10. Add 50 µL of Stop Solution to each well.
11. Read at 450 nm immediately.

Restrictions:	For Research Use only

Handling

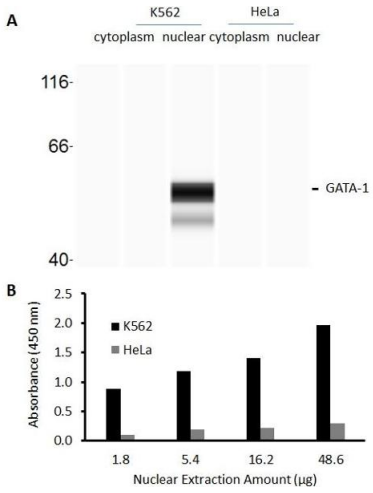
Storage:	4 °C
Storage Comment:	Upon receipt, the positive control should be removed and stored at -20° or -80°C. The remainder of the kit can be stored for up to 6 months at 2-8°C from the date of shipment. Opened Microplate Wells or reagents may be stored for up to 1 month at 2° to 8°C. Return unused 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-1 from nuclear extracts of K562 cells or HeLa cells with the specific competitor or non-specific competitor. The result shows specific binding of GATA-1 to the GATA conserved binding site detected by using the GATA-1 Transcription Factor-Activity Assay Kit.



Activity Assay

Image 2. Transcription factor activity assay of GATA-1 from nuclear extracts of K562 cells or HeLa cells. In K562 cells, activated GATA-1 is translocated into the nucleus where it binds with its corresponding DNA. A. Western-blot result of GATA-1 from cytoplasmic and nuclear fractions. B. Transcription factor activity assay of GATA-1 from nuclear fractions with the GATA-1 Transcription Factor-Activity Assay Kit.