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Datasheet for ABIN5526702

SMAD1 ELISA Kit

Overview

Quantity:	96 tests
Target:	SMAD1
Binding Specificity:	pSer463, pSer465, total
Reactivity:	Human
Method Type:	Cell ELISA
Application:	ELISA

Product Details

Purpose:	Cell-Based ELISA Kit. This assay semi-quantitatively measures SMAD1 phosphorylated at Serine-463/465 as well as total SMAD1 in adherent cell lines.
Sample Type:	Adherent Cell Culture
Analytical Method:	Semi-Quantitative
Detection Method:	Colorimetric
Specificity:	This ELISA kit recognizes Human SMAD1 phosphorylated at site Serine-463/465 as well as total SMAD1.
Characteristics:	<ul style="list-style-type: none">• Rapidly measure phosphorylated protein in adherent cell lines• Simultaneously measure Phosphorylated protein and pan protein in one experiment (for normalization purpose)• No sample lysis is needed• Compatible with a standard ELISA plate reader
Components:	<ul style="list-style-type: none">• Uncoated 96-well Strip Microplate

Product Details

- Wash Buffers
- Fixing Solution
- Quenching Buffer
- Blocking Buffer
- Anti-phospho antibody
- Anti-pan antibody
- HRP-Conjugated Secondary Antibody
- TMB One-Step Substrate
- Stop Solution

Material not included:

- Distilled or deionized water
- 100 mL and 1 liter graduated cylinders
- Tubes to prepare sample dilutions
- Protease and Phosphatase inhibitors
- Precision pipettes to deliver 2 μ L 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: SMAD1

Alternative Name: SMAD1 ([SMAD1 Products](#))

Gene ID: 4086

UniProt: [Q15797](#)

Pathways: [Stem Cell Maintenance](#), [Regulation of Muscle Cell Differentiation](#), [Skeletal Muscle Fiber Development](#)

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.
2. Add 100 μ L of sample or positive control to each well.
3. Incubate 2.5 h at RT or O/N at 4 °C.
4. Add 100 μ L of prepared primary antibody to each well.
5. Incubate 1 h at RT.
6. Add 100 μ L of prepared 1X HRP-Streptavidin 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
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Handling

Storage:	-20 °C
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Storage Comment:	Upon receipt, the kit should be stored at -20 °C. Please use within 6 months from the date of shipment. After initial use, Wash Buffer Concentrate (Item B), Assay Diluent (Item E), TMB One-Step Substrate Reagent (Item H), HRP-Streptavidin (Item G), Stop Solution (Item I) and Cell Lysate Buffer (Item J) should be stored at 4 °C to avoid repeated freeze-thaw cycles. Return unused wells to the pouch containing desiccant pack, reseal along entire edge and store at -20 °C. Reconstituted Positive Control (Item K) should be stored at -70 °C.
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Expiry Date:	6 months
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