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Datasheet for ABIN5526703
SMAD5 ELISA Kit

Overview

Quantity:	96 tests
Target:	SMAD5
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 SMAD5 phosphorylated at Serine-463/465 as well as total SMAD5 in adherent cell lines.
Sample Type:	Adherent Cell Culture
Analytical Method:	Semi-Quantitative
Detection Method:	Colorimetric
Specificity:	This ELISA kit recognizes Human SMAD5 phosphorylated at site Serine-463/465 as well as total SMAD5.
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:	<ul style="list-style-type: none">• 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 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:	SMAD5
Alternative Name:	SMAD5 (SMAD5 Products)
Gene ID:	4090
UniProt:	Q99717

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 2.5 h at RT or O/N at 4 $^{\circ}$C.4. Add 100 μL of prepared primary antibody to each well.5. Incubate 1 h at RT.6. Add 100 μL of prepared 1X HRP-Streptavidin 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.

Application Details

10. Add 50 μ L 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 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.

Expiry Date: 6 months