

Datasheet for ABIN7527250 SMAD2 IQ-ELISA Kit



Overview

Quantity:	5 x 96 tests
Target:	SMAD2
Reactivity:	Human
Method Type:	Sandwich ELISA
Application:	ELISA
Product Details	
Purpose:	Human Immunoquantitative (PCR-Based) SMAD2 ELISA Kit for cell culture supernatants,
	plasma, and serum samples.
Sample Type:	Cell Culture Supernatant, Plasma, Serum
Analytical Method:	Semi-Quantitative
Detection Method:	qPCR
Characteristics:	IQ-ELISAs employ specific capture antibodies coated on a 96-well PCR plate. Standards and
	samples are pipetted into the wells, the target protein in the standards and samples binds to
	the immobilized antibody. The wells are washed and the detection affinity reagent is added to
	the wells where it binds to any captured antigen. The wells are washed, and primers and PCR
	master mix are added to each well. The plate is placed into a real time PCR instrument for
	cycling and measurement of DNA amplification. The cycle number where amplification is
	detected is proportional to the amount of affinity detection reagent that bound to captured
	antigen in each well.

Components:

• SMAD2 Microplate (Item A): 96 well PCR plate coated with anti-Human SMAD2

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	 Wash Buffer I Concentrate (20x) (Item B): 25 ml of 20x concentrated solution Standards (Item C): 2 vials of recombinant Human SMAD2 Assay Diluent A (Item D): 30 ml diluent buffer, 0.09% sodium azide as preservative. For Standard/Sample (serum/plasma) diluent Assay Diluent B (Item E): 15 ml of 5x concentrated buffer. For Standard/Sample (cell culture medium/urine) diluent Detection Affinity Reagent for SMAD2 (Item F): 2 vials of a 4x concentrated solution of anti- Human SMAD2 affinity reagent IQELISA Detection Reagent (Item G): 1.4ml of a 10x concentrated stock Primer Solution (Item I): 1.7 ml vial PCR Master Mix (Item J): 1.2 ml vial PCR Preparation buffer (Item K): 1ml vial of 10x concentrated buffer
Material not included:	 Final Wash Buffer (Item L): 10ml vial of 10x concentrated buffer Real-time PCR instrument, Bio-Rad recommended Precision pipettes to deliver 2 µL to 1 mL volumes Adjustable 1-25 mL pipettes for reagent preparation 100 mL and 1 liter graduated cylinders Absorbent paper Distilled or deionized water Log-log graph paper or computer and software for data analysis Tubes to prepare standard or sample dilutions

- Heating block or water bath capable of $80^{\circ}C$

Target Details

Target:	SMAD2	
Alternative Name:	SMAD2 (SMAD2 Products)	
Gene ID:	4087	
UniProt:	Q15796	
Pathways:	Cell Division Cycle, Hormone Transport, Chromatin Binding, Protein targeting to Nucleus	

Application Details

Application Notes:	The Immuno-Quantitative ELISA (IQELISA) kits are an innovative assay platform that combines
	the specificity and ease of use of an ELISA with the sensitivity of real-time PCR. This results in
	an assay that is simultaneously familiar and cutting edge and enables the use of only 1/10th
	the sample volume while also providing 10x more sensitivity than a traditional ELISA.
Comment:	The Immuno-Quantitative ELISA (IQELISA™) kits are an innovative assay platform that

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Application Details

	combines the specificity and ease of use of an ELISA with the sensitivity of real-time PCR. Also
	called immuno-PCR, this detection platform results in an assay that is simultaneously familiar
	and cutting edge. Compared to traditional ELISA, IQELISA™ enables the use of only 1/10th the
	sample volume while also providing 10x more sensitivity.
Sample Volume:	25 µL
Plate:	Pre-coated
Protocol:	1. Prepare all reagents, samples and standards as instructed
	2. Add 25 μL standard or sample to each well. Incubate for 2.5 hours at room temperature or overnight at 4°C
	3. Add 25 μ L detection affinity reagent to each well. Incubate 1 hour at room temperature
	4. Add 25µL of IQELISA Detection Reagent to each well. Incubate 1 hour
	5. Add 15 μ L Primer solution 10 μ L of PCR master mix to each well
	6. Run real-time PCR
Restrictions:	For Research Use only
Handling	
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	May be stored for up to 6 months at 2° to 8°C from the date of shipment. Standard
	(recombinant protein) should be stored at -20°C or -80°C (recommended at -80°C) after
	reconstitution. Opened PCR plate or reagents may be stored for up to 1 month at 2° to 8°C.
	Note: the kit can be used within one year if the whole kit is stored at -20°C. Avoid repeated
	freeze-thaw cycles.
Expiry Date:	6 months