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Datasheet for ABIN6384378 CD51 IQ-ELISA Kit



Overview	
Quantity:	96 tests
Target:	CD51 (ITGAV)
Reactivity:	Human
Method Type:	Sandwich ELISA
Application:	ELISA
Product Details	
Purpose:	Human Immunoquantitative (PCR-Based) CD51 (Integrin alpha-V ELISA Kit for cell culture supernatants, plasma, and serum samples.
Sample Type:	Cell Culture Supernatant, Plasma, Serum
Analytical Method:	Semi-Quantitative
Detection Method:	qPCR
Sensitivity:	0.15 ng/mL
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.

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Product Details

Components:	 CD51 (Integrin alpha-V Microplate (Item A): 96 well PCR plate coated with anti-Human CD51 (Integrin alpha-V
	• Wash Buffer I Concentrate (20x) (Item B): 25 ml of 20x concentrated solution
	Standards (Item C): 2 vials of recombinant Human CD51 (Integrin alpha-V
	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 CD51 (Integrin alpha-V (Item F): 2 vials of a 4x concentrated
	solution of anti-Human CD51 (Integrin alpha-V 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
	Final Wash Buffer (Item L): 10ml vial of 10x concentrated buffer
Material not included:	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° C

Heating block or water bath capable of 80°	С
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Target	Details
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Target:	CD51 (ITGAV)
Alternative Name:	CD51 (Integrin alpha-V) (ITGAV Products)
Gene ID:	3685
UniProt:	P06756
Pathways:	Cell-Cell Junction Organization, Signaling Events mediated by VEGFR1 and VEGFR2, Growth Factor Binding, Integrin Complex

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

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	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 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:	 Prepare all reagents, samples and standards as instructed Add 25 µL standard or sample to each well. Incubate for 2.5 hours at room temperature or overnight at 4°C Add 25 µL detection affinity reagent to each well. Incubate 1 hour at room temperature Add 25µL of IQELISA Detection Reagent to each well. Incubate 1 hour Add 15µL Primer solution 10µL of PCR master mix to each well Run real-time PCR For Research Use only
Handling	For Research Use only
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