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# Datasheet for ABIN2344825 CytoSelect<sup>™</sup> 48-well Cell Adhesion Assay (ECM Array, Colorimetric)

24

Publications



#### Overview

Image

Quantity:	48 tests
Reactivity:	Mammalian
Application:	Cellular Assay (CA)

### Product Details

Brand:	CytoSelect™
Sample Type:	Serum, Cell Samples
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Characteristics:	The CytoSelect™ Cell Adhesion Assay Kit provides a rapid, quantitative method for evaluating
	cell adhesion. The kit contains sufficient reagents for the evaluation of 48 samples (40 ECM
	protein-coated wells, 8 BSA-coated wells).
Components:	1. ECM Adhesion Plate : One 48-well plate containing 40 ECM protein-coated wells and 8 BSA-
	coated wells (see layout below). FN, Collagen IV and Fibrinogen are from human, Laminin I is
	from Mouse and Collagen I is from Bovine.
	2. Cell Stain Solution : One Bottle - 10.0 mL
	3. Extraction Solution : One Bottle - 10.0 mL
Material not included:	1. Cell culture medium
	2. Serum free medium, such as DMEM containing 0.5 % BSA, 2 mM CaCl2 and 2 mM MgCl2
	3. Cell culture incubator (37 °C, 5 % CO2 atmosphere)
	4. 1X PBS containing 2 mM CaCl2 and 2 mM MgCl2
	5. Light microscope
	6. 96-well microtiter plate

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#### 7. Microtiter plate reader

## Target Details

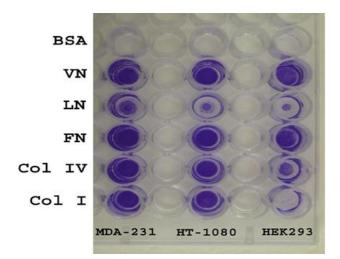
Background:	Cell adhesion is a complex process involved in embryogenesis, migration/invasion, tissue
	remodeling, and wound healing. To perform these processes, cells adhere to extracellular
	matrix components (via adhesion receptors), forming complexes with components of the
	cytoskeleton that ultimately affect cell motility, differentiation, proliferation, and survival.

# Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Comment:	Full quantitation of cell adhesion with no manual cell counting
	Plates precoated with a uniform substrate layer of a single ECM protein in each row: Collager
	I, Collagen IV, Fibrinogen, Fibronectin, and Laminin
Plate:	Pre-coated
Protocol:	The CytoSelect™ Cell Adhesion Assay Kit utilizes an ECM protein-coated 48-well plate (see
	Adhesion Plate Layout below). First, cells are seeded onto the coated substrate, where the
	adherent cells are captured. Next, unbound cells are washed away, and the adherent cells are
	fixed/stained. Finally, the stain is extracted and quantified colorimetrically.
Assay Procedure:	1. Under sterile conditions, allow the ECM Adhesion Plate to warm up at room temperature for
	10 minutes.
	2. Prepare a cell suspension containing 0.1-1.0 x 106 cells/mL in serum free media. Agents that
	inhibit or stimulate cell adhesion can be added directly to the cell suspension.
	3. Add 150 μL of the cell suspension to the inside of each well (BSA-coated wells are provided as a negative control).
	4. Incubate for 30-90 min in a cell culture incubator.
	5. Carefully discard or aspirate the media from each well (Note: Do not allow wells to dry).
	Gently wash each well 4-5 times with 250 $\mu$ L PBS. 3
	6. Aspirate the PBS from each well and add 200 $\mu L$ of Cell Stain Solution. Incubate for
	10 minutes at room temperature.
	7. Discard or aspirate the Cell Stain Solution from the wells. Gently wash each well 4-5 times
	with 500 $\mu$ L deionized water.
	8. Discard the final wash and let the wells air dry.
	9. Add 200 $\mu L$ of Extraction Solution per well, and then incubate 10 minutes on an orbital
	shaker.
	10. Transfer 150 $\mu$ L from each extracted sample to a 96-well microtiter plate and measure the
	OD 560nm in a plate reader.

Application Details	
Restrictions:	For Research Use only
Handling	
Storage:	4 °C
Storage Comment:	Store all kit components at 4°C.
Publications	
Product cited in:	Guerra, Rose, Hematti, Kao: "Minocycline enhances the mesenchymal stromal/stem cell pro-
	healing phenotype in triple antimicrobial-loaded hydrogels." in: Acta biomaterialia, Vol. 51, pp.
	184-196, (2017) (PubMed).
	Bradbury, Turner, Mitchell, Griffin, Middlemiss, Lau, Dagg, Taran, Cooper-White, Fabry, ONeill: "
	The focal adhesion targeting domain of p130Cas confers a mechanosensing function." in:
	Journal of cell science, Vol. 130, Issue 7, pp. 1263-1273, (2017) (PubMed).
	Moore, England, Ehrlich, Rimm: "Calcium Sensor, NCS-1, Promotes Tumor Aggressiveness and
	Predicts Patient Survival." in: Molecular cancer research : MCR, (2017) (PubMed).
	P?uciennik, Nowakowska, Ga?dyszy?ska, Pop?da, Bednarek: "The influence of the WWOX gene
	on the regulation of biological processes during endometrial carcinogenesis." in: International
	journal of molecular medicine, (2016) (PubMed).
	Sato, Kubo, Morimoto, Yanagihara, Seyama: "High mannose-binding Pseudomonas fluorescens
	lectin (PFL) downregulates cell surface integrin/EGFR and induces autophagy in gastric cancer
	cells." in: <b>BMC cancer</b> , Vol. 16, Issue 1, pp. 63, (2016) (PubMed).

There are more publications referencing this product on: Product page



#### **Cellular Assay**

**Image 1.** CytoSelect<sup>™</sup> 48-Well Cell Adhesion Assay, ECM Array. Serum starved cells from three different cell lines were allowed to attach to the ECM-coated 48-well plate for 1 hr at 100,000 cells/well. Adherent cells were stained according to the assay protocol. BSA = Bovine Serum Albumin. VN = Vitronectin. LN = Laminin. FN = Fibronectin. Col = Collagen.

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