Datasheet for ABIN625536

Label-based Antibody Array I

29 Publications

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Overview

Quantity:	2 samples
Reactivity:	Human
Application:	Antibody Array (AA), Multiplex ELISA (mpELISA)

Product Details

Brand:	RayBio®
Specificity:	Detects: 6Ckine, Activin A, Activin B, Activin C, Activin RIA, ALK-2, Activin RIB, ALK-4, Activin RII A, B, Activin RIIA, Adiponectin, Acrp30, AgRP, ALCAM, Angiogenin, Angiopoietin-1, Angiopoietin-2, Angiopoietin-4, Angiopoietin-like 1, Angiopoietin-like
Characteristics:	L Series 507: RayBio® Label-based Antibody Array I (2 membrane arrays), for simultaneous detection of 507 Human proteins in 2 samples. Recommended for use with serum, plasma and cell-cultured media. Compatible with many bodily fluids and many cell or tiss
Material not included:	1X PBS, pH=8.0. Shaker. 2~5 ml tube. 50 ml conical collection tube. Distilled water. Kodak X-Omat AR film (REF 165 1454) and film processor or Chemiluminescence imaging system

Target Details

Background:	Recent technological advances by have enabled the largest commercially available antibody array to date. With the L Series 507, researchers can now obtain a broad, panoramic view of cytokine expression. The expression levels of 507 human target proteins can be simultaneously detected, including cytokines, chemokines, adipokine, growth factors, angiogenic factors, proteases, soluble receptors, sobuble adhesion molecules and other proteins in cell culture supernate and serum. Furthermore, an internal control is used to monitor the whole process including biotin-labeling, so this massive array will accurately reflect the available cytokines in

Target Details

	your sample. The first step in using the Biotin label-based human antibody array 1 is to biotinylate the primary amine of the proteins in cell culture supernates. The biotin-labeled sample is then added onto array membrane and incubated at room temperature. After incubation with HRP-streptavidin, the signals can be visualized by chemiluminescence.

Application Details

Sample Preparation:	A. Handling Array Membranes. Always use forceps to handle membranes, and grip the membranes by the edges only. Never allow array membranes to dry during experiments. Avoid touch Array membrane by hand, tips or any sharp tools. B. Incubation. Completely cover membranes with sample or buffer during incubation, and cover eight-well tray with lid to avoid drying. Avoid foaming during incubation steps. Perform all incubation and wash steps under gentle rotation. Several incubation steps such as step 3 in page 10 (sample incubation) or step 7 in page 11 (HRP-streptavidin incubation) may be done at 4 °C for overnight.
Restrictions:	For Research Use only

Handling

Storage:	4 °C/-20 °C

Publications

Product cited in:	Pal, Nguyen, Morita, Miki, Kayamori, Yamaguchi, Sakamoto: "THBS1 is induced by TGFB1 in the cancer stroma and promotes invasion of oral squamous cell carcinoma." in: **Journal of oral pathology & medicine : official publication of the International Association of Oral Pathologists and the American Academy of Oral Pathology**, Vol. 45, Issue 10, pp. 730-739, (2017) (PubMed). Onderdijk, Ijpma, Menting, Baerveldt, Prens: "Potential serum biomarkers of treatment response to ustekinumab in patients with psoriasis: a pilot study." in: **The British journal of dermatology**, Vol. 173, Issue 6, pp. 1536-9, (2016) (PubMed). Ding, Yang, Yu, Xu, Zeng, Qiu, Li: "Feeder-free and xeno-free culture of human pluripotent stem cells using UCBS matrix." in: **Cell biology international**, Vol. 39, Issue 10, pp. 1111-9, (2015) (PubMed). Endo-Munoz, Cai, Cumming, Macklin, Merida de Long, Topkas, Mukhopadhyay, Hill, Saunders: "

Progression of Osteosarcoma from a Non-Metastatic to a Metastatic Phenotype Is Causally Associated with Activation of an Autocrine and Paracrine uPA Axis." in: **PLoS ONE**, Vol. 10, Issue 8, pp. e0133592, (2015) (PubMed).

Holton, Bergamaschi, Katzenellenbogen, Bhargava: "Integration of molecular profiling and chemical imaging to elucidate fibroblast-microenvironment impact on cancer cell phenotype and endocrine resistance in breast cancer." in: **PLoS ONE**, Vol. 9, Issue 5, pp. e96878, (2015) (PubMed).

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