

Human Podocalyxin (PCX) ELISA Kit | PCX elisa kit

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CATALOG #
AAA331449

REACTIVITY
Human

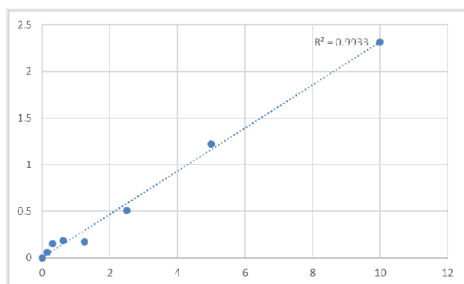
PRODUCT SYNONYMS

Podocalyxin (PCX); Human Podocalyxin (PCX) ELISA Kit; PCX elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Podocalyxin (PCX) ELISA Kit has high sensitivity and excellent specificity for detection of Human PCX. No significant cross-reactivity or interference between Human PCX and analogues was observed.
Sequence Length	485
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Podocalyxin (PCX) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for PCX elisa kit	Description: This Human Podocalyxin (PCX) ELISA Kit employs a two-site sandwich ELISA to quantitate PCX in samples. An antibody specific for PCX has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any PCX present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PCX is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of PCX bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Podocalyxin belongs to the CD34/Podocalyxin family of sialomucins that share structural similarity and sequence homology. Podocalyxin is a major sialoprotein in the podocytes of the kidney glomerulus and is also expressed by both endothelium and multipotent hematopoietic progenitors. It has been identified as a novel cell surface marker for hemangioblasts, the common precursors of hematopoietic and endothelial cells. The protein was originally identified as an important component of glomerular podocytes. Other biological activities of the encoded protein include: binding in a membrane protein complex with Na⁺/H⁺ exchanger regulatory factor to intracellular cytoskeletal elements, playing a role in hematopoietic cell differentiation, and being expressed in vascular endothelium cells and binding to L-selectin.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	20301990
NCBI GenBank Nucleotide #	NP_620203.1
UniProt Accession #	Q9WTQ2
NCBI Official Full Name	podocalyxin
UniProt Protein Name	Podocalyxin
UniProt Gene Name	Podxl
UniProt Synonym Gene Names	Pclp1; PC; PCLP-1
UniProt Entry Name	PODXL_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/podocalyxin-pcx/331449>