

ARG82466 Human Nephrin ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG82466-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82466-002	Standard	2 X 10 ng/vial	4°C
ARG82466-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82466-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG82466-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82466-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG82466-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82466-008	25X Wash buffer	20 ml	4°C
ARG82466-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82466-010	STOP solution	10 ml (Ready to use)	4°C
ARG82466-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG82466 Human Nephrin ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human Nephrin in serum, plasma (EDTA, heparin, citrate) and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Target Name	Nephrin
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	78 pg/ml
Sample Type	Serum, plasma (EDTA, heparin, citrate) and cell culture supernatants.
Standard Range	156 - 10000 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: 4.4% Inter-Assay CV: 6.3%

Alternate Names	CNF; NPHN; Renal glomerulus-specific cell adhesion receptor; nephrin; Nephrin
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Application Instructions

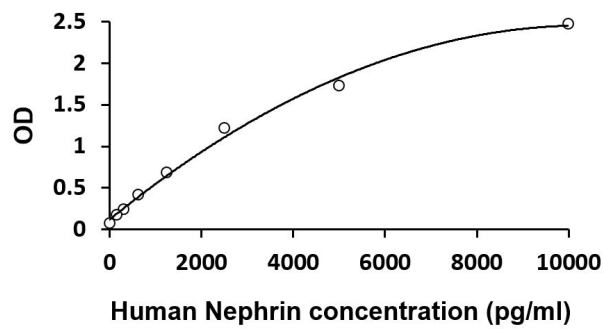
Assay Time	~ 5 hours
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Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	NPHS1
Gene Full Name	nephrosis 1, congenital, Finnish type (nephrin)
Background	This gene encodes a member of the immunoglobulin family of cell adhesion molecules that functions in the glomerular filtration barrier in the kidney. The gene is primarily expressed in renal tissues, and the protein is a type-1 transmembrane protein found at the slit diaphragm of glomerular podocytes. The slit diaphragm is thought to function as an ultrafilter to exclude albumin and other plasma macromolecules in the formation of urine. Mutations in this gene result in Finnish-type congenital nephrosis 1, characterized by severe proteinuria and loss of the slit diaphragm and foot processes.[provided by RefSeq, Oct 2009]
Function	Seems to play a role in the development or function of the kidney glomerular filtration barrier. Regulates glomerular vascular permeability. May anchor the podocyte slit diaphragm to the actin cytoskeleton. Plays a role in skeletal muscle formation through regulation of myoblast fusion (By similarity). [UniProt]
Highlight	Related products: Nephrin antibodies: Nephrin ELISA Kits: New ELISA data calculation tool: Simplify the ELISA analysis by GainData
PTM	Phosphorylated at Tyr-1193 by FYN, leading to the recruitment and activation of phospholipase C-gamma-1/PLCG1. [UniProt]
Cellular Localization	Cell membrane; Single-pass type I membrane protein. Note=Predominantly located at podocyte slit diaphragm between podocyte foot processes. Also associated with podocyte apical plasma membrane. [UniProt]



ARG82466 Human Nephhrin ELISA Kit standard curve image

ARG82466 Human Nephhrin ELISA Kit results of a typical standard run with optical density reading at 450 nm.