

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Nephrin in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 1037720
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived human Nephrin Gln23-Thr1029 Accession # O60500
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Nephrin (or renal glomerulus-specific cell adhesion receptor; also NPHS1) is a 185 - 200 kDa member of the Ig superfamily. It is expressed on glomerular podocyte membranes, associates with same-cell Nephrin, and forms homomeric zipper-like complexes with Nephrin on adjacent podocytes. Mature human Nephrin is a type I transmembrane glycoprotein 1219 amino acids (aa) in length. It contains a 1033 aa extracellular region and a 165 aa cytoplasmic tail. One potential, soluble splice form is known where aa's 1056 - 1095 are deleted, eliminating the transmembrane region. Over aa 23 - 1029, human Nephrin shares 84% and 89% aa identity with mouse and dog Nephrin, respectively.

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