Human Nephronectin Alexa Fluor® 405-conjugated Antibody

Monoclonal Mouse IgG_{2A} Clone # 859326

Catalog Number: FAB8025V

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Nephronectin in ELISAs and Western blots.
Source	Monoclonal Mouse IgG_{2A} Clone # 859326
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human Nephronectin Glu20-Arg565 Accession # Q6UXI9
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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.
Immunohistochemistry	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

Nephronectin, also called POEM (preosteoblast EGF repeat protein with MAM domain) or EGFL6L, is a 70-90 kDa extracellular matrix protein that is a ligand for integrin α8β1 and mediates cell adhesion and spreading. The 565 amino acid (aa) human Nephronectin contains a 19 aa signal sequence, five EGF-like domains, a mucin-like region, an RGD integrin binding motif, and a MAM domain. Isoforms of 509-595 aa contain deletions of aa 387-416, and/or an insertion of 30 aa after aa 88, and/or substitution of 3 aa for aa 535-564. Mature human Nephronectin shares 88% and 89% aa sequence identity with mouse and rat Nephronectin, respectively. It is most highly expressed in developing endocrine organs such as parathyroid, thyroid, hypophysis and pineal organ, around developing bone, teeth, and muscle, and in the Wolffian duct and ureteric bud basement membranes in the developing kidney.

PRODUCT SPECIFIC NOTICES

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