Mouse Podocan Alexa Fluor® 405-conjugated Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF3104V
100 µg

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Podocan in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 5% cross-reactivity with recombinant human Podocan is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Podocan Val24-Arg611 Accession # Q7TQ62
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

Mouse Podocan is a 95 kDa, secreted glycoprotein that is a class V member of the small leucine rich protein gene family (1, 2). It is synthesized as a 611 amino acid (aa) precursor that contains a 23 aa signal sequence, a cysteine-rich region, a series of leucine rich repeats (LRRs), and an extensive acidic C-terminal domain (4, 5). The 15 aa cysteine-rich region (aa 69-84) shows a CX3CXCX7C motif, qualifying it as a class V SLRP family member. This is followed by twenty LRRs, thirteen of which are type T (4xLeu; 1xPhe) and seven type S (4xLeu; 2xPro). The LRRs run uninterrupted from aa 89-559. The C-terminal seventeen amino acids contain fourteen Glu residues. The negative charge associated with these residues may play a role in basement membrane permeability (4). Mature mouse Podocan is 93% and 94% aa identical to human and canine Podocan, respectively. Over the last 504 aa, mouse Podocan shares 98% aa sequence identity with rat Podocan. Podocan is apparently secreted by podocytes and vascular endothelial cells, and deposited in the underlying basement membrane (4). Podocan is known to bind to type I collagen, and have an inhibitory effect on the migration of Podocan-transfected CHO cells (5). The significance of this is unclear.

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Bio-Techne®
Global | bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL: 1.612.379.2956
USA | TEL: 800.343.7475 Canada | TEL: 855.668.8722 Europe | Middle East | Africa TEL: +44.0.1235.529449
China | info.cn@bio-techne.com TEL: 400.821.3475