

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human TIN-Ag in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human TINAGL1 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human TIN-Ag Glu20-Pro476 Accession # Q6NSC1
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 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

TIN-Ag (Tubulointerstitial nephritis antigen) is a 48-58 kDa glycoprotein member of the peptidase C1 family of molecules. It is secreted by renal tubule epithelium and (presumably) small intestine columnar epithelium. TIN-Ag is an integral component of the renal tubule basement membrane (BM), and appears to promote proper BM matrix organization, block laminin polymerization, and serve as a receptor for the epithelial integrins $\alpha 3 \beta 1$ and $\alpha v \beta 3$. Epithelial dissociation from the BM is associated with an epithelial-to-mesenchymal transition. Human TIN-Ag is synthesized as a 476 amino acid (aa) preproprecursor. It contains a 19 aa signal sequence, a 30 aa furin-cleavable prosegment (aa 20-49), and a 427 aa mature region (aa 50-476). Within the mature region is an SMB domain (aa 61-106), one vWFC domain (aa 119-154), and a nonenzymatic peptidase C1A region (aa 218-466). Multiple splice variants are possible, and potential isoforms may show an alternative start site at Met322, or a combined deletion of aa 119-169 plus 209-300, or a combination of an alternative start site at Met19 coupled to a 13 aa substitution for aa 209-476. Over aa 20-476, human proTIN-Ag shares 86% aa identity with mouse proTIN-Ag; over the mature region (aa 50-476), human TIN-Ag shares 89% aa identity with mouse TIN-Ag.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.