

Human TINAGL1 Antibody

Monoclonal Mouse IgG₁ Clone # 812417 Catalog Number: MAB7185

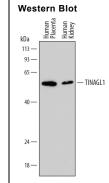
DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human TINAGL1 in direct ELISAs and Western blots. In Western blots, no cross-reactivity with recombinant human TIN-Ag observed.		
Source	Monoclonal Mouse IgG ₁ Clone # 812417		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human TINAGL1 Ala22-Met464 Accession # Q9GZM7		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.		

APPLICATIONS

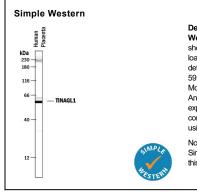
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	0.5 μg/mL	See Below
Simple Western	5 μg/mL	See Below

DATA



Detection of Human TINAGL1 by Western Blot. Western blot shows lysates of human placenta tissue and human kidney tissue. PVDF membrane was probed with 0.5 µg/mL of Mouse Anti-Human TiNAGL1 Monoclonal Antibody (Catalog # MAB7185) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for TINAGL1 at approximately 55 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.



Detection of Human TINAGL1 by Simple Western™. Simple Western lane view shows lysates of human placenta tissue, loaded at 0.5 mg/mL. A specific band was detected for TINAGL1 at approximately 59 kDa (as indicated) using 5 μg/mL of Mouse Anti-Human TINAGL1 Monoclonal Antibody (Catalog # MAB7185). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

Non-specific interaction with the 230 kDa

Non-specific interaction with the 230 kDa Simple Western standard may be seen with this antibody.

PREPARATION AND STORAGE

Reconstitution Sterile PBS to a final concentration of 0.5 mg/mL

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

- 12 months from date of receipt, -20 to -70 °C as supplied
- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

TINAGL1 (Tubulointerstitial nephritis antigen-like 1; also TIN-ag-RP, AZ-1 and LCN7) is a 54-57 kDa glycoprotein member of the peptidase C1 family of molecules. It is secreted by renal tubule epithelium, zona glomerulosa cells, vascular smooth muscle and striated muscle cells. TINAGL1 may play a role in the spatial and temporal development of the steroid component of the adrenal, in part by suppressing the expression of CYP11B1. Human TINAGL1 is synthesized as a 467 amino acid (aa) precursor. It contains a 21 aa signal sequence and a 446 aa mature region (aa 22-467). Within the mature region is an SMB (somatomedin B) domain (aa 50-98), one vWFC domain (aa 105-140), and a nonenzymatic peptidase C1A region (aa 204-455). There are multiple potential isoform variants. One contains an alternative start site at Met106, another shows a deletion of aa 126-156, and a third possesses a 60 aa substitution for aa 1-194, coupled to a 38 aa insertion after Gly286, and a 16 aa substitution for aa 365-467. Undefined forms of 40-42 kDa and 22 kDa have been noted in TINAGL1-transfected cell supernatant subjected to SDS-PAGE. Over aa 22-464, human TINAGL1 shares 90% aa identity with mouse TINAGL1.

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