

DESCRIPTION

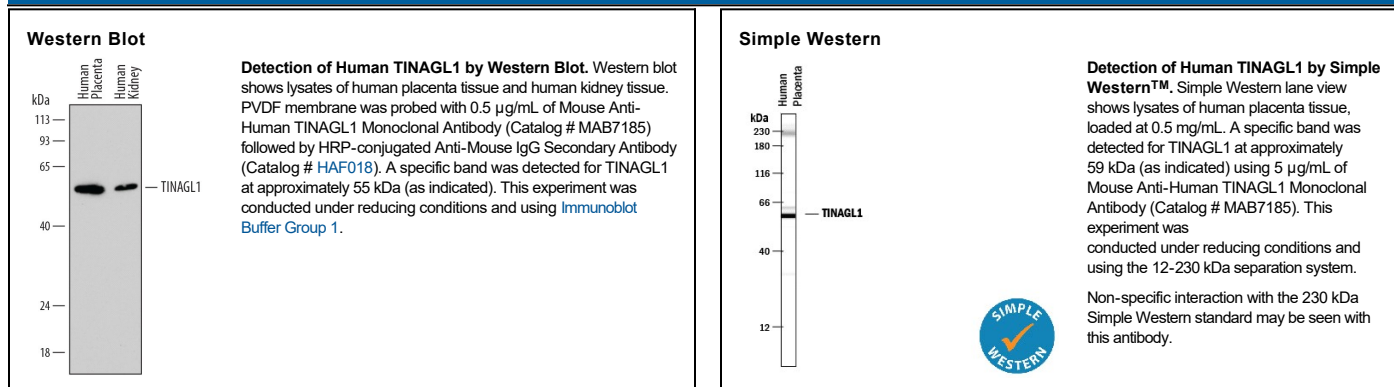
Species Reactivity	Human
Specificity	Detects human TINAGL1 in direct ELISAs and Western blots. In Western blots, no cross-reactivity with recombinant human TIN-Ag is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 812417
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	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



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
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> 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.