

Human TEM7/PLXDC1 Isoform 1 Antibody

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF5327

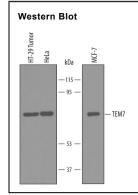
DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human TEM7/PLXDC1 Isoform 1 in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human TEM8 is observed.		
Source	Polyclonal Sheep IgG		
Purification	Antigen Affinity-purified		
Immunogen	Mouse myeloma cell line NS0-derived recombinant human TEM7/PLXDC1 Isoform 1 Leu19-Thr426 Accession # ACE86780		
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 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	1 μg/mL	See Below

DATA



Detection of Human TEM7/PLXDC1 Isoform 1 by Western Blot. Western blot shows lysates of HT-29 human colon adenocarcinoma cell line cancer tissue, HeLa human cervical epithelial carcinoma cell line, and MCF-7 human breast cancer cell line. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Human TEM7/PLXDC1 Isoform 1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5327) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for TEM7 Isoform 1 at approximately 85 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.		
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.		

- 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

TEM7 (Tumor endothelial marker 7; also TEM3 and Plexin domain-containing protein-1/PXDC1) is an 85 kDa member of the plexin family of proteins. It is one of a number of TEM designated molecules that are related only a name and not structural similarity. TEM7 is found on tumor endothelial cells, newly formed endothelial cells and neurons. It is known to bind nidogen. Mature human TEM7 is a type I transmembrane glycoprotein 482 amino acids (aa) in length. It contains an extracellular region (aa 19-426) with one plexin domain (aa 303-347). There are three isoform variants. One is intracellular and shows an alternate start site at Met74 accompanied by a 28 aa substitution for aa 331-500. The other two are soluble, with one showing only the above 28 aa substitution and a second showing an eight aa substitution for aa 331-500. Over aa 19-426, human TEM7 shares 81% aa identity with mouse TEM7.

