

## DESCRIPTION

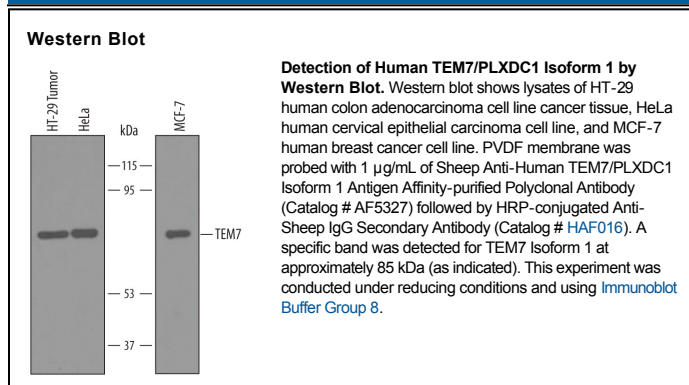
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human TEM7/PLXDC1 Isoform 1 in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human TEM8 is observed.
<b>Source</b>	Polyclonal Sheep IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen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

## DATA



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## 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.