

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
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

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.

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