PLXDC1 Protein, Human (HEK293, His)

Cat. No.:	HY-P71214
Synonyms:	Plexin Domain-Containing Protein 1; Tumor Endothelial Marker 3; Tumor Endothelial Marker 7; PLXDC1; TEM3; TEM7
Species:	Human
Source:	HEK293
Accession:	AAH36059.1 (L19-T426)
Gene ID:	57125
Molecular Weight:	60-90 kDa

PROPERTIES

AA Sequence	L S P Q P G A G H D E G P G S G W A A K G T V R G W N R R A R E S P G H V S E P D R T Q L S Q D L G G G T L A M D T L P D N R T R V V E D N H S Y Y V S R L Y G P S E P H S R E L W V D V A E A N R S Q V K I H T I L S N T H R Q A S R V V L S F D F P F Y G H P L R Q I T M A T G G F I F M G D V I H R M L T A T Q Y V A P L M A N F N P G Y S D N S T V V Y F D N G T V F V V Q W D H V Y L Q G W E D K G S F T F Q A A L H H D G R I V F A Y K E I P M S V P E I S S S Q H P V K T G L S D A F M I L N P S P D V P E S R R R S I F E Y H R I E L D P S K V T S M S A V E F T P L P T C L Q H R S C D A C M S S D L T F N C S W C H V L Q R C S S G F D R Y R Q E W M D Y G C A Q E A E G R M C E D F Q D E D H D S A S P D T S F S P Y D G D L T T T S S S L F I D S L T T E D D T K L N P Y A G G D G L Q N N L S P K T K G T P V H L G T
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, 5% Threhalose, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US;may vary elsewhere.

DESCRIPTION

Background	PLXDC1, a cell surface transmembrane protein, that is also a highly expressed protein in the vascular endothelium of human

tumors. Under normal and pathological conditions, PLXDC1 is involved in angiogenesis. Pigment epithelium-derived factor binds to PLXDC1 on the cell surface through its extracellular structural domain, thus exerting anti-neoangiogenesis effects and inhibiting tumor growth. PLXDC1 is involved in the development of various cancers. For example, the glioblastoma endothelium drives bevacizumab-induced infiltrative growth through the regulation of PLXDC1. PLXDC1 promotes immune activation and stromal signaling pathways. It is expressed on the surface of tumor cells, that is highly expressed in GC cells and is likely correlated with tumor invasion and migration. PLXDC1 can be used as a biomarker for the prognosis of gastric cancer. The unique angiogenic function of PLXDC1 can be used in tumor anti-angiogenesis and immune research[1][2].

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