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Plxdc2 Antibody

Catalog # ASC10623

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	Q6UX71
Other Accession	Q6UX71, 74749416
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	59583
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	Plxdc2 antibody can be used for detection of Plxdc2 by Western blot at 0.5 - 1 g/mL. Antibody can also be used for immunohistochemistry starting at 2.5 g/mL. For immunofluorescence start at 20 g/mL.

Additional Information

Gene ID	84898
Other Names	Plexin domain-containing protein 2, Tumor endothelial marker 7-related protein, PLXDC2, TEM7R
Target/Specificity	PLXDC2;
Reconstitution & Storage	Plxdc2 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	Plxdc2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PLXDC2
Synonyms	TEM7R
Function	May play a role in tumor angiogenesis.
Cellular Location	Membrane; Single-pass type I membrane protein
Tissue Location	Expressed in the endothelial cells of the stroma but not in the endothelial cells of normal colonic tissue

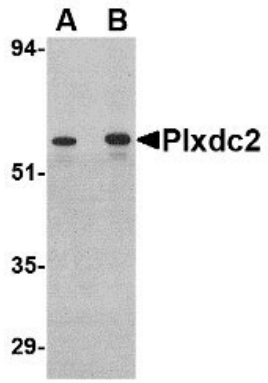
Background

Plxdc2 Antibody: Plxdc2, also known as Tumor endothelial marker 7-related (TEM7R) encodes a protein with 57% amino acid identity to TEM7, the most abundant tumor endothelial marker. Plxdc2 is strongly expressed in the endothelial cells of the tumor stroma, but not in the endothelial cells of normal colonic tissue. Plxdc2 is also expressed at high levels in vessels of some normal tissues, with highest expression in muscle and lung. Plxdc2 and TEM7 may be important for tumor angiogenesis in humans. Cortactin was identified as a protein capable of binding to the extracellular region of both TEM7 and Plxdc2, and may provide new opportunities for the delivery of therapeutic and imaging agents to the vessels of solid tumors.

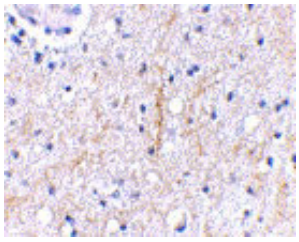
References

Carson-Weber EB, Watkins DN, Nanda A, et al. Cell surface tumor epithelial markers are conserved in mice and humans. Cancer Res.2001; 61:6649-55.
Nabda A and St. Croix Bl. Tumor endothelial markers: new targets for cancer therapy. Curr Opin Oncol.2004; 16:44-9.
St. Croix B, Rago C, Velculescu V, et al. Genes expressed in human tumor endothelium. Science2000; 289:1197-202.
Nanda A, Buckhaults P, Seaman S, et al. Identification of a binding partner for the endothelial cell surface proteins TEM7 and TEM7R. Cancer Res.2004; 64:8507-11.

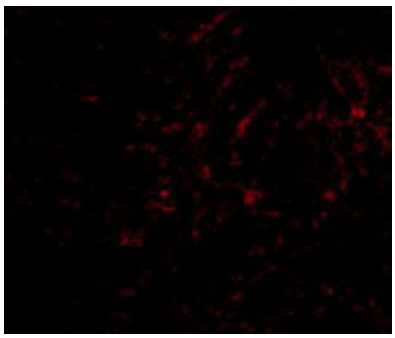
Images



Western blot analysis of Plxdc2 in human colon tissue lysate with Plxdc2 antibody at (A) 0.5 (B) 1 µg/mL.



Immunohistochemical staining of human brain tissue using Plxdc2 antibody at 2.5 µg/mL.



Immunofluorescence of Plxdc2 in Human Brain cells with Plxdc2 antibody at 50 µg/mL.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.