COSMO BIO CO., LTD.
Inspiration for Life Science

ANTIBODY

For research use only. Not for clinical diagnosis.

Catalog No. CSA-003

Anti-PODXL (Clone:SS8)

Product type	Recombinant Rabbit IgG-kappa (Clone:SS8)
Immunogen	Human_PODXL (AAB61574.1)
Form	Liquid
Concentration	300μg/mL
Volume	200μL
Buffer	Phosphate Buffered Saline (PBS)
Preservative	ProClin 300 (15 ppm)
Specificity	Human
Applications	WB(1:100-1000), IC(1:100-1000), IHC(p)(1:50-200) , IF(1:500-2000)
Host	HEK293

Gene Alias

PCLP, PCLP1

Application notes

PODXL, a glycoprotein with diverse roles in cellular processes, plays a complex and context-dependent role in cancer progression. While some cancer cells exhibit increased PODXL expression, others show reduced expression. Notably, high PODXL expression has been linked to worse overall survival in pancreatic cancer patients and appears to promote cancer cell motility and invasion through its interaction with the cytoskeletal protein gelsolin (Cancer Sci. 2016 Oct;107(10):1430-1442. doi: 10.1111/cas.13018.).
The exact mechanisms by which PODXL impacts cancer are still being explored, but its role in cell adhesion, migration, and angiogenesis suggests it may play diverse roles across different cancer types.

- Cell adhesion: PODXL helps anchor cells to each other and the extracellular matrix. In some cancers, decreased PODXL expression weakens cell adhesion, making them more prone to detachment and metastasis..
- Cell migration: PODXL's effect on cell movement also depends on the context. Increased PODXL expression in some cancers may promote migration, while reduced expression in others may have the opposite effect.
- Angiogenesis: Like with cell adhesion and migration, the role of PODXL in angiogenesis varies across cancer types. Changes in PODXL expression can either encourage or discourage the growth of new blood vessels, impacting tumor access to nutrients and oxygen.
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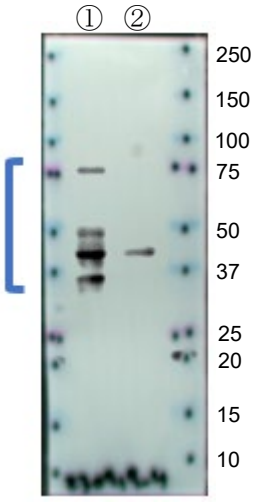
Unraveling the intricate relationship between PODXL and cancer across different types could pave the way for novel therapeutic strategies.

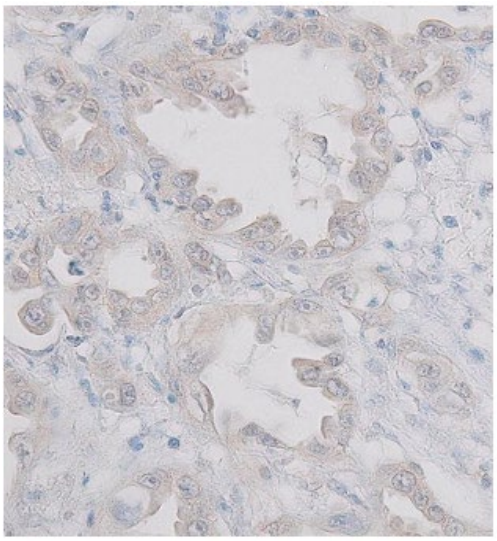
Western blot

Antibody dilution: 1:1000 . Specific band of 35～75kDa.



Lane① S2 -013(Human Pancreas cancer cell line)
Lane② PANC-1(Human Pancreas cancer cell line)

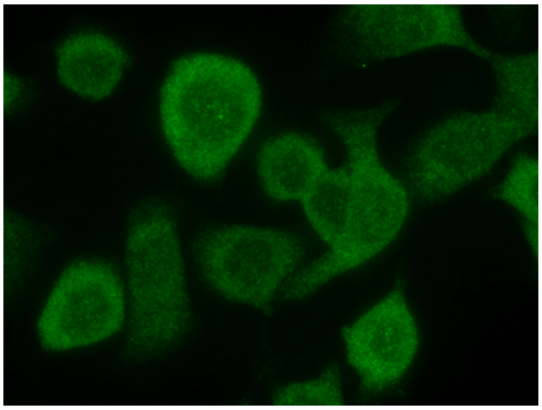
Immunohistochemistry(Paraffin sections)



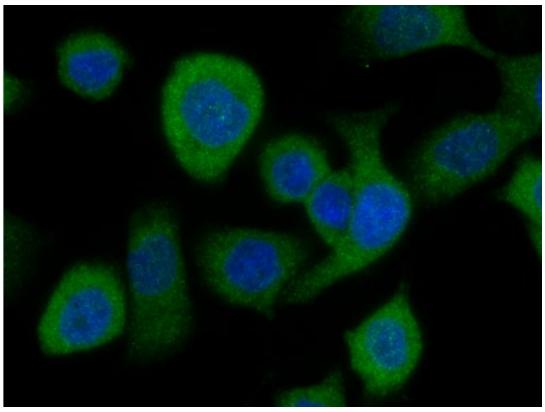
(Immunohistochemical staining of PODXL using resected pancreatic cancer tissues) Intense cytoplasmic PODXL staining was observed in ductal adenocarcinoma cells lining the tumor ducts, whereas the surrounding desmoplastic stroma exhibited complete absence of PODXL staining.

Antibody dilution: 1:200

Immunocytochemistry



(Immunocytochemical staining of PODXL in S2-013 pancreatic cancer cells)
Intense cytoplasmic PODXL staining was observed in S2-013 cells, with prominent staining throughout the cytoplasm. Green: PODXL.
Antibody dilution: 1:1000



Cytoplasmic PODXL staining was observed in S2-013 cells. PODXL (green)/DAPI (blue).
Antibody dilution: 1:1000

Storage -80°C

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