

DPT Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP7485c

Product Information

Application	WB, IHC-P, IF, FC, E
Primary Accession	Q07507
Other Accession	P45846 , Q9QZZ6 , P19427
Reactivity	Human
Predicted	Mouse, Pig, Bovine, Rat, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB17950
Calculated MW	24005
Antigen Region	102-128

Additional Information

Gene ID	1805
Other Names	Dermatopontin, Tyrosine-rich acidic matrix protein, TRAMP, DPT
Target/Specificity	This DPT antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 102-128 amino acids from the Central region of human DPT.
Dilution	WB~~1:1000 IHC-P~~1:100~500 IF~~1:10~50 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	DPT Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	DPT
Function	Seems to mediate adhesion by cell surface integrin binding. May serve as a communication link between the dermal fibroblast cell surface and its

extracellular matrix environment. Enhances TGF β 1 activity. Inhibits cell proliferation. Accelerates collagen fibril formation, and stabilizes collagen fibrils against low-temperature dissociation (By similarity).

Cellular Location

Secreted, extracellular space, extracellular matrix

Tissue Location

Expressed in fibroblasts, heart, skeletal muscle, brain and pancreas. Expressed at an intermediate level in lung and kidney, and at a low level in liver and placenta. Expressed at a lower level in fibroblasts from hypertrophic scar lesional skin and in fibroblasts from patients with systemic sclerosis than in normal skin fibroblasts.

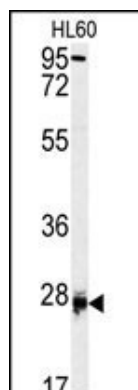
Background

DPT is an extracellular matrix protein with possible functions in cell-matrix interactions and matrix assembly. This protein is found in various tissues and many of its tyrosine residues are sulphated. The protein is postulated to modify the behavior of TGF- β through interaction with decorin.

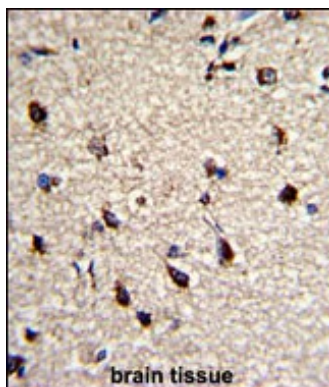
References

Cheung,C.L., Chan,B.Y. Hum. Mol. Genet. 18 (4), 679-687 (2009)
Pochampally,R.R., Ylostalo,J. J. Bone Miner. Res. 22 (9), 1338-1349 (2007)
Lunetta,K.L., D'Agostino,R.B. Sr. BMC Med. Genet. 8 SUPPL 1, S13 (2007)

Images

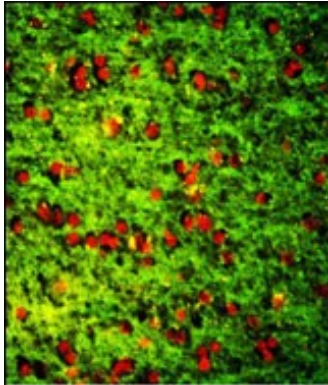
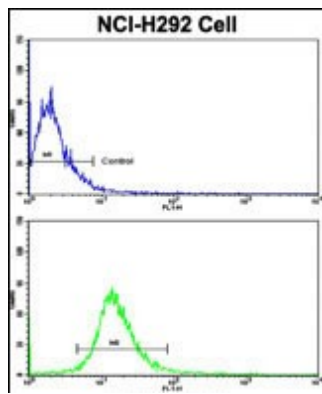


Western blot analysis of DPT antibody (Center) (Cat.#AP7485c) in HL60 cell line lysates (35ug/lane). DPT (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human brain with DPT Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Flow cytometric analysis of NCI-H292 cells using DPT Antibody (Center)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Immunofluorescence analysis of DPT Antibody (Center) with paraffin-embedded human brain tissue . 0.05 mg/ml primary antibody was followed by FITC-conjugated goat anti-rabbit IgG (whole molecule). FITC emits green fluorescence. Red counterstaining is PI.

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