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DPT Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7485c

Specification

DPT Antibody (Center) - Product Information

Application	**IF, FC, IHC-P, WB,E**
Primary Accession	Q07507
Other Accession	P45846, Q9QZZ6, P19427
Reactivity	**Human**
Predicted	**Bovine, Mouse, Pig**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**102-128**

DPT Antibody (Center) - 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
IF~~1:10~50
FC~~1:10~50
IHC-P~~1:50~100
WB~~1:1000
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.

DPT Antibody (Center) - 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 TGFB1 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

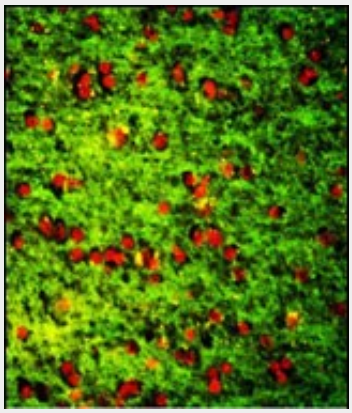
Tissue Location
Expressed in fibroblasts, heart, skeletal muscle, brain and pancreas. Expressed at an intermediate level in lung and kidney, and at a low level in liver and placenta. Expressed at a lower level in fibroblasts from hypertrophic scar lesional skin and in fibroblasts from patients with systemic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

DPT Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

DPT Antibody (Center) - Images



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.

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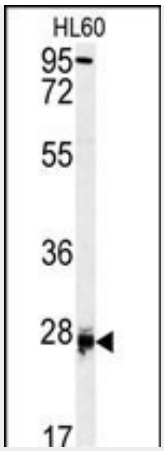
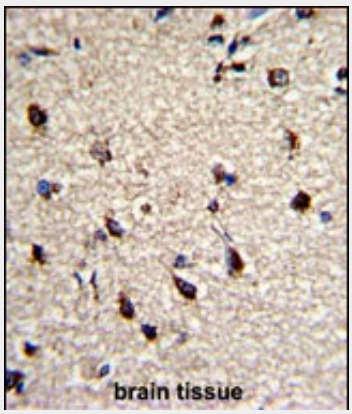
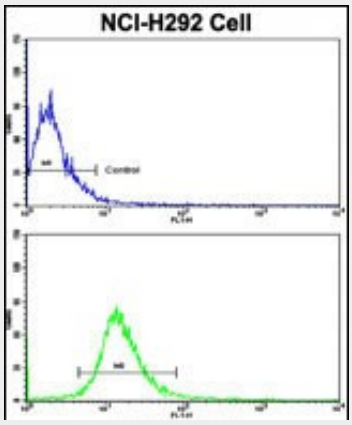


Western blot analysis of DPT antibody (Center) (Cat.#AP7485c) in HL60 cell line lysates (35ug/lane). DPT (arrow) was detected using the purified Pab.



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.

DPT Antibody (Center) - 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-beta through interaction with decorin.

DPT Antibody (Center) - 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)