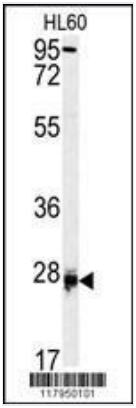
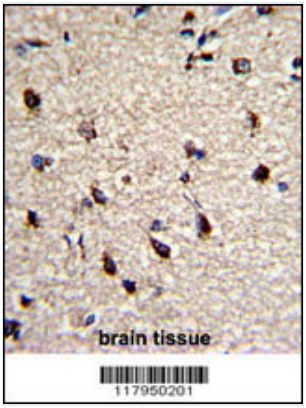
DPT Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

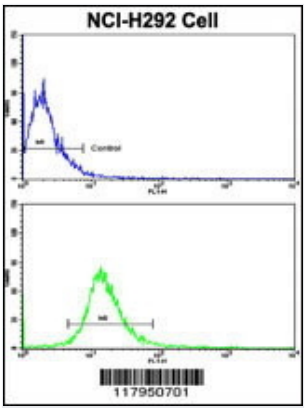
Product Name	DPT, Polyclonal Antibody
Full Product Name	DPT, ID (Dermatopontin, Tyrosine-rich Acidic Matrix Protein, TRAMP) (PE)
Product Gene Name	anti-DPT antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE).
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human DPT.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: PE conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	38
3D Structure	ModBase 3D Structure for Q07507
Immunogen	Synthetic peptide selected from the center region of human DPT (KLH).
Conjugate	PE
Note	Preservative Free
Product Categories/Family for anti-DPT antibody	Antibodies; Extracellular Matrix Proteins
Applications Tested/Suitable for anti-DPT antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-DPT antibody	WB: 1:50-1:100 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-DPT antibody	MBS6472294 is an antibody targeting DPT. Also known as DPT, ID (Dermatopontin, Tyrosine-rich Acidic Matrix Protein, TRAMP) (PE). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-DPT antibody	1. Cheung, C.L., Chan, B.Y. Hum. Mol. Genet. 18(4), 679-687 (2009). 2. Pochampally, R.R., Ylostalo, J. J. Bone Miner. Res. 22(9), 1338-1349 (2007). 3. Lunetta, K.L., D'Agostino, R.B. Sr. BMC Med. Genet. 8 SUPPL 1, S13 (2007).
Other Notes	Small volumes of anti-DPT antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



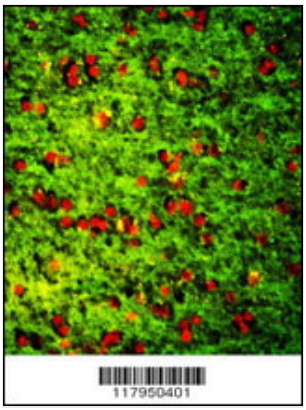
Western Blot (WB) of anti-DPT antibody
Western blot analysis of DPT antibody (Center) in HL60 cell line lysates (35ug/lane). DPT (arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-DPT antibody
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 Cytometry (FC/FACS) of anti-DPT antibody
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.



Immunohistochemistry (IHC) of anti-DPT antibody
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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DPT. It may not necessarily be applicable to this product.

NCBI GI #	32307172
NCBI GeneID	1805
NCBI Accession #	NP_001928
UniProt Primary Accession #	Q07507
UniProt Related Accession #	Q07507
GenBank Nucleotide #	NM_001937
NCBI Official Full Name	dermatopontin
NCBI Official Synonym Full Names	dermatopontin
NCBI Official Symbol	DPT
NCBI Official Synonym Symbols	TRAMP
UniProt Protein Name	Dermatopontin
UniProt Synonym Protein Names	Tyrosine-rich acidic matrix protein; TRAMP
Protein Family	Dermatopontin

UniProt Gene Name	DPT
UniProt Synonym Gene Names	TRAMP
NCBI Protein Information	dermatopontin
NCBI Summary for DPT	Dermatopontin is an extracellular matrix protein with possible functions in cell-matrix interactions and matrix assembly. The protein is found in various tissues and many of its tyrosine residues are sulphated. Dermatopontin is postulated to modify the behavior of TGF-beta through interaction with decorin. [provided by RefSeq, Jul 2008]
UniProt Comments for DPT	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 ().
Research Articles on DPT	**1.** DPT gene silencing could effectively reduce the proliferation of MG-63 cells, slow down the cell cycle progression and promote cell apoptosis.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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