

TCHP Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP9354c

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q9BT92
Reactivity	Human
Predicted	Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB24714
Calculated MW	61072
Antigen Region	291-320

Additional Information

Gene ID	84260
Other Names	Trichoplein keratin filament-binding protein, Protein TCHP, Mitochondrial protein with oncostatic activity, Mitostatin, Tumor suppressor protein, TCHP {ECO:0000312 EMBL:AAH042851}
Target/Specificity	This TCHP antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 291-320 amino acids from the Central region of human TCHP.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. 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	TCHP Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	TCHP {ECO:0000312 EMBL:AAH04285.1}
Function	Tumor suppressor which has the ability to inhibit cell growth and be

pro-apoptotic during cell stress. Inhibits cell growth in bladder and prostate cancer cells by a down-regulation of HSPB1 by inhibiting its phosphorylation. May act as a 'capping' or 'branching' protein for keratin filaments in the cell periphery. May regulate K8/K18 filament and desmosome organization mainly at the apical or peripheral regions of simple epithelial cells (PubMed:[15731013](#), PubMed:[18931701](#)). Is a negative regulator of ciliogenesis (PubMed:[25270598](#)).

Cellular Location

Cytoplasm, cytoskeleton. Cytoplasm Cell membrane. Mitochondrion. Cell junction, desmosome. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome

Tissue Location

Expressed at high levels in normal urothelial and breast epithelial cells. Also expressed in the smooth muscle and endothelial cells. Reduced expression seen in advanced bladder and breast carcinomas (at protein level). Ubiquitous. Expressed at highest levels in the heart, skeletal muscle, kidney, liver and testis

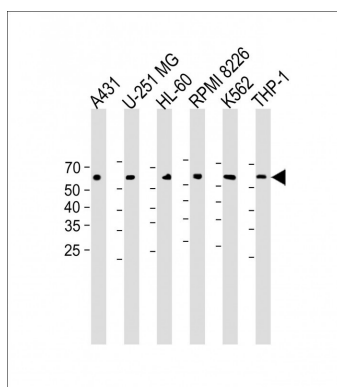
Background

TCHP may act as a 'capping' or 'branching' protein for keratin filaments in the cell periphery. This protein may regulate K8/K18 filament and desmosome organization mainly at the apical or peripheral regions of simple epithelial cells.

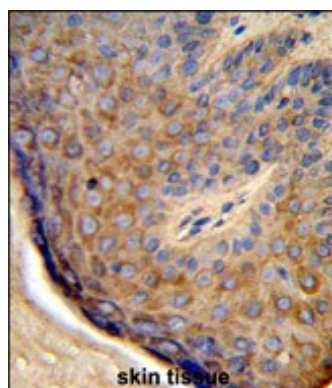
References

Vecchione,A. Oncogene 28 (2), 257-269 (2009)
Tokumasu,F. J. Cell. Sci. 118 (PT 5), 1091-1098 (2005)
Nishizawa,M. J. Cell. Sci. 118 (PT 5), 1081-1090 (2005)

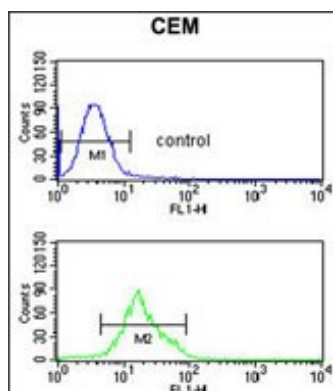
Images



All lanes : Anti-TCHP Antibody (Center) at 1:1000 dilution
Lane 1: A431 whole cell lysate Lane 2: U-251 MG whole cell lysate Lane 3: HL-60 whole cell lysate Lane 4: RPMI 8226 whole cell lysate Lane 5: K562 whole cell lysate Lane 6: THP-1 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size : 61kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Formalin-fixed and paraffin-embedded human skin tissue reacted with TCHP 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.



TCHP Antibody (Center) (Cat. #AP9354c) flow cytometric analysis of CEM cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

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