For Research Use Only

CDA1 Polyclonal antibody

Catalog Number:12087-2-AP Featured Product 9 Publications

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Basic Information

Catalog Number:
12087-2-AP

Size:
150ul , Concentration: 450 ug/ml by Nanodrop and 260 ug/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG2722

GenBank Accession Number:
BC024270

GeneID (NCBI):
64061

UNIPROT ID:
Q9H2G4

Full Name:
TSPY-like 2

Calculated MW:
693 aa, 79 kDa

Observed MW:
120 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:20-1:200
IF/ICC 1:20-1:200

Applications

Tested Applications:
WB, IHC, IF/ICC, IP, ELISA

Cited Applications:
WB, IHC, CoIP, IF

Species Specificity:
human

Cited Species:
human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HeLa cells, DU 145 cells, HEK-293 cells, MCF-7 cells

IP : HEK-293 cells,

IHC : human lung cancer tissue,

IF/ICC : Hela cells,

Background Information

TSPYL2 (also known as CINAP, CDA1, TSPX or DENTT) is a new member of the nucleosome assembly protein superfamily. TSPYL2 binds histones and facilitates nucleosome assembly. TSPYL2 is expressed in various tissues, highly in the pituitary gland and moderately in the adrenals, brain, testis, and ovary. Immunohistochemical staining analysis for TSPYL2 showed differential cytoplasmic and nuclear staining patterns in several cell types. Downregulated expression of TSPYL2 has been observed in several tumors, which suggests its role as a tumor suppressor. Although it is predicted that TSPYL2 has a molecular mass of 79.43 kDa, it is found that mammalian TSPYL2 appears at a size of 120 kDa by western blot analysis. The abundant acidic amino acid regions in TSPYL2 may cause its aberrant migration. In addition, the TSPYL2 protein is unstable and sensitive to proteasomal degradation.

Notable Publications

Author	Pubmed ID	Journal	Application
Sabine Conrad	26649052	Stem Cells Int	IF
Kido Tatsuo T	21829568	PLoS One	WB
M T Epping	25613376	Cell Death Differ	WB

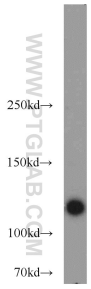
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

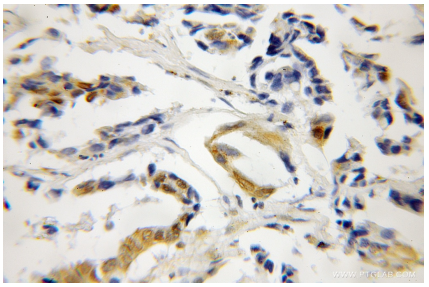
***** 20ul sizes contain 0.1% BSA**

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

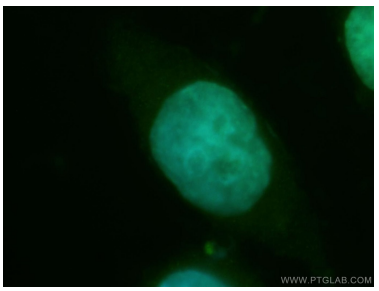
Selected Validation Data



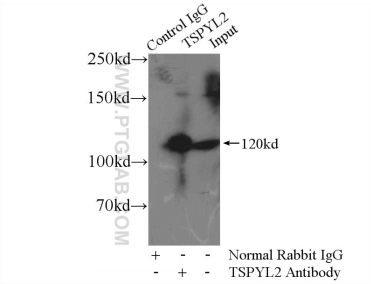
HeLa cells were subjected to SDS PAGE followed by western blot with 12087-2-AP (CDA1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung cancer using 12087-2-AP (CDA1 antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of Hela cells, using TSPYL2 antibody 12087-2-AP at 1:50 dilution and FITC-labeled donkey anti-rabbit IgG (green). Blue pseudocolor = DAPI (fluorescent DNA dye).



IP result of anti-CDA1 (IP:12087-2-AP, 4ug; Detection:12087-2-AP 1:1000) with HEK-293 cells lysate 1000ug.