

For Research Use Only

# CTDSP2 Polyclonal antibody

Catalog Number: 11116-1-AP



## Basic Information

<b>Catalog Number:</b> 11116-1-AP	<b>GenBank Accession Number:</b> BC065920	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 500 µg/ml	<b>GeneID (NCBI):</b> 10106	<b>Recommended Dilutions:</b> WB 1:200-1:1000 IHC 1:20-1:200
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O14595	
<b>Isotype:</b> IgG	<b>Full Name:</b> CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 2	
<b>Immunogen Catalog Number:</b> AG1601	<b>Calculated MW:</b> 31 kDa	
	<b>Observed MW:</b> 31 kDa	

## Applications

<b>Tested Applications:</b> IHC, WB, ELISA	<b>Positive Controls:</b> WB : human kidney tissue, HepG2 cells, K-562 cells IHC : human pancreas cancer tissue,
<b>Species Specificity:</b> human, mouse, rat	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

CTDSPs are C-class phosphatases that act on Ser 5 of the Pol II C-terminal domain (CTD) to decrease transcription [PMID:15681389]. CTDSP enzymatic activity is required for REST function, and knockdown of CTDSP induces the neuronal differentiation of mouse embryonic carcinoma P19 cells. CTDSP2 has been shown to enhance TGF- $\beta$  signaling by the dephosphorylation of SMAD proteins and attenuates androgen receptor-mediated transcription [PMID:16724108]. It negatively regulates RNA polymerase II transcription by controlling the transition from initiation/capping to processive transcript elongation. It was recruited by REST to neuronal genes that contain RE-1 elements, leading to neuronal gene silencing in non-neuronal cells [PMID: 12721286].

## 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

For technical support and original validation data for this product please contact:

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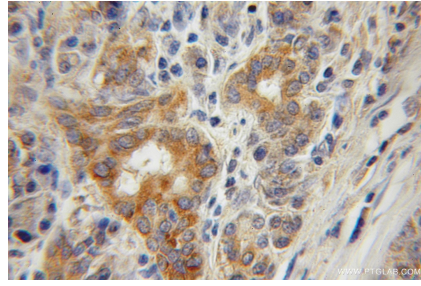
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## Selected Validation Data



human kidney tissue were subjected to SDS PAGE followed by western blot with 11116-1-AP (CTDSP2 antibody) at dilution of 1:400 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human pancreas cancer using 11116-1-AP (CTDSP2 antibody) at dilution of 1:50 (under 10x lens).