

CREST Polyclonal antibody

Catalog Number: 12439-1-AP

Featured Product

10 Publications

Basic Information

Catalog Number:

12439-1-AP

Size:

600 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3119

GenBank Accession Number:

BC034494

GeneID (NCBI):

26039

UNIPROT ID:

O75177

Full Name:

synovial sarcoma translocation gene on chromosome 18-like 1

Calculated MW:

396 aa, 43 kDa

Observed MW:

55 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:3000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

IF 1:50-1:500

Applications

Tested Applications:

IF/ICC, IHC, IP, WB, ELISA

Cited Applications:

WB, IF, IHC, CoIP, ChIP

Species Specificity:

human, mouse, rat

Cited Species:

Drosophila, human, mouse, rat

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: K-562 cells, mouse brain tissue, human heart tissue, COLO 320 cells, HeLa cells

IP: HeLa cells, mouse brain tissue

IHC: human breast cancer tissue, human brain tissue

IF: HeLa cells, mouse testis tissue

Background Information

CREST, also named as SS18-like 1 (SS18L1) is a transcriptional activator that is required for calcium-dependent dendritic growth and branching in cortical neurons. It's also a nuclear protein interacts with CREB-binding protein and expressed in the developing brain. It helps regulate neuronal morphogenesis in calcium-dependent manner. The N-terminal domain of SS18L1 is required for suppressing transactivation in the basal state, while the C-terminal domain is required for calcium-induced transactivation. It's part of the CREST-BRG1 complex, a multiprotein complex that regulates promoter activation by orchestrating a calcium-dependent release of a repressor complex and a recruitment of an activator complex. This complex also binds to the NR2B promoter, and activity-dependent induction of NR2B expression involves a release of HDAC1 and recruitment of CREBBP. The calculated molecular weight of CREST is about 43 kDa, but the modified of CREST protein is 55 kDa (PMID: 25888396). CREST exists some isoforms with calculated MV 43, 40, 33 and 29 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Yasaman Alagband	30228227	J Neurosci	WB,IF
Colin Kenny	34071089	Cancers (Basel)	ChIP
Stahl Brett T BT	23785148	J Neurosci	IF

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:

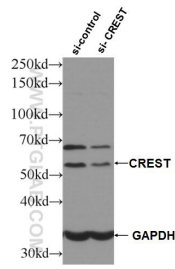
T: 4006900926

E: Proteintech-CN@ptglab.com

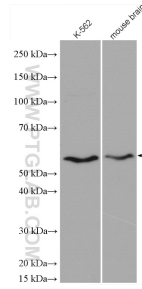
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

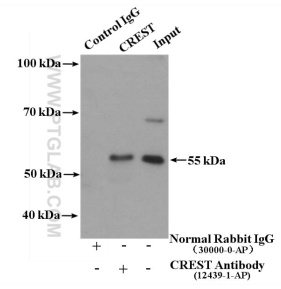
Selected Validation Data



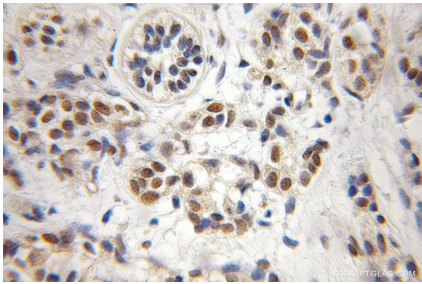
WB result of CREST antibody (12439-1-AP; 1:4000; incubated at room temperature for 1.5 hours) with sh-Control and sh-CREST transfected HeLa cells.



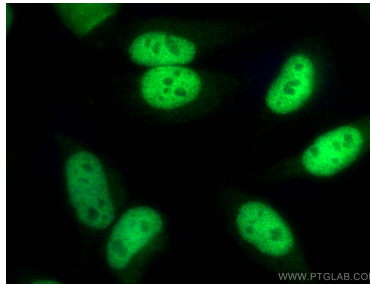
Various lysates were subjected to SDS PAGE followed by western blot with 12439-1-AP (CREST antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



IP result of anti-CREST (IP:12439-1-AP, 4ug; Detection:12439-1-AP 1:300) with HeLa cells lysate 3000 ug.



Immunohistochemical analysis of paraffin-embedded human breast cancer using 12439-1-AP (CREST antibody) at dilution of 1:50 (under 10x lens).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using CREST antibody (12439-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).