

For Research Use Only

CREST Polyclonal antibody

Catalog Number: 12439-1-AP

Featured Product

11 Publications



Basic Information

Catalog Number:

12439-1-AP

Concentration:

600 ug/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: 1:1000-1:6000

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

IHC: 1:20-1:200

IF-P: 1:50-1:500

IF/ICC: 1:400-1:1600

Applications

Tested Applications:

WB, IHC, IF/ICC, IF-P, IP, ELISA

Cited Applications:

WB, IHC, IF, CoIP, ChIP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, drosophila

Positive Controls:

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

IP: HeLa cells, mouse brain tissue

IHC: human breast cancer tissue, human brain tissue

IF-P: mouse testis tissue,

IF/ICC: HeLa cells,

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

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 Alaghband	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, pH7.3

Aliquoting is unnecessary for -20°C storage

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

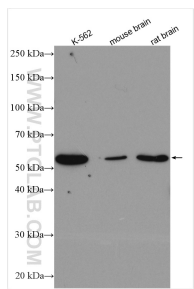
T: 4006900926

E: Proteintech-CN@ptglab.com

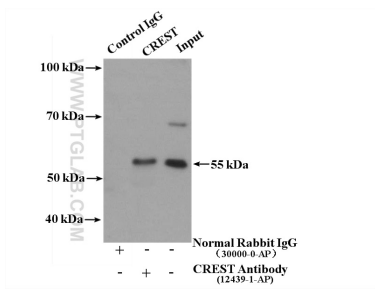
W: ptgcn.com

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

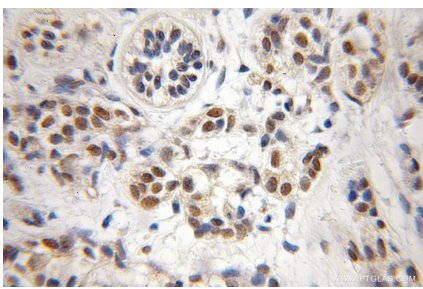
Selected Validation Data



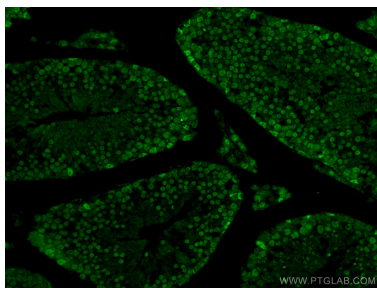
Various lysates were subjected to SDS PAGE followed by western blot with 12439-1-AP (CREST antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



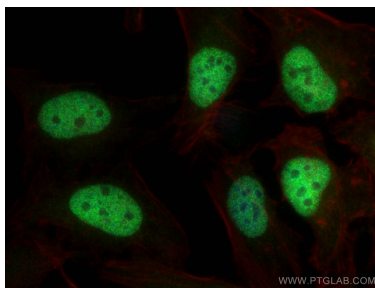
IP result of anti-CREST (IP:12439-1-AP, 4ug; Detection:12439-1-AP 1:300) with HeLa cells lysate 3000 ug.



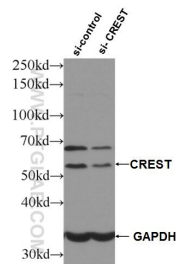
Immunohistochemical analysis of paraffin-embedded human breast cancer using 12439-1-AP (CREST antibody) at dilution of 1:50 (under 10x lens).



Immunofluorescent analysis of (4% PFA) fixed mouse testis tissue using 12439-1-AP (CREST antibody) at dilution of 1:100 and CoraLite488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using CREST antibody (12439-1-AP) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), (CL594-Phalloidin, red).



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.