For Research Use Only

CREST Polyclonal antibody

Catalog Number:12439-1-AP Featured Product 7 Publications

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Basic Information

Catalog Number:
12439-1-AP

Size:
150UL , Concentration: 260 μg/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG3119

GenBank Accession Number:
BC034494

GeneID (NCBI):
26039

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 ug for IP and 1:150-1:600 for WB
IHC 1:20-1:200
IF 1:50-1:500

Applications

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

Cited Applications:
CoIP, IF, IHC, WB

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, COLO 320 cells, human heart tissue, HeLa cells, mouse brain tissue

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 calcuim-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 calulated MV 43, 40, 33 and 29 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Yasaman Alaghband	30228227	J Neurosci	WB,IF
Staahl Brett T BT	23785148	J Neurosci	IF
Sangeun Park	31390360	PLoS Genet	WB

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.1% 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: 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

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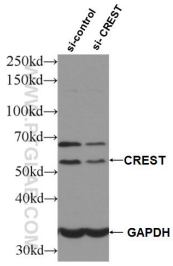
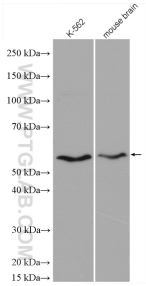
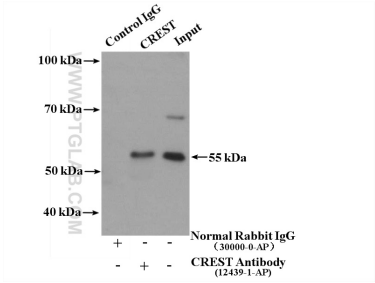
Selected Validation Data



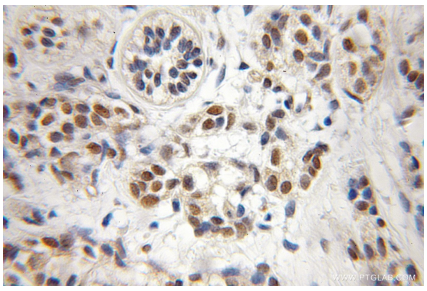
WB result of CREST antibody (12439-1-AP; 1:4000; incubated at room temperature for 1.5 hours) with sh-Control and sh-CREST transfected HeLa cells.



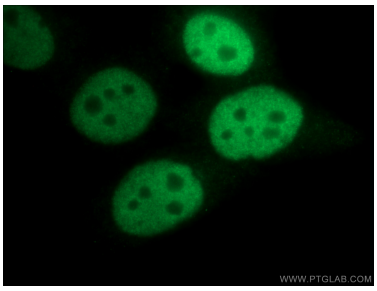
Various lysates were subjected to SDS PAGE followed by western blot with 12439-1-AP (CREST antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



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 12439-1-AP (CREST antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).