For Research Use Only

CREST Monoclonal antibody

Catalog Number:60314-1-Ig

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Basic Information

Catalog Number:
60314-1-Ig

Size:
150ul , Concentration: 1500 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG1

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:
50 kDa

Purification Method:
Protein G purification

CloneNo.:
3D5D10

Recommended Dilutions:
WB 1:1000-1:6000

Applications

Tested Applications:
WB, ELISA

Species Specificity:
human, rat, mouse

Positive Controls:

WB : NIH/3T3 cells, COLO 320 cells, HSC-T6 cells, RAW 264.7 cells, MCF-7 cells

Background Information

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).

Storage

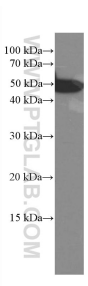
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

***** 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

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

Selected Validation Data



NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 60314-1-Ig (CREST antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.