

CREST Rabbit pAb

CatalogNo: YN5937

| Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB

MW

- 44kD (Calculated)

Isotype

- IgG

| Recommended Dilution Ratios

WB 1:500-2000

| Storage

Storage*

-15°C to -25°C/1 year(Do not lower than -25°C)

Formulation

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

| Basic Information

Clonality

Polyclonal

| Immunogen Information

Immunogen

Synthesized peptide derived from human CREST

Specificity

This antibody detects endogenous levels of CREST at Human, Mouse, Rat

| Target Information

Gene name

SS18L1 CREST KIAA0693

Protein Name	Calcium-responsive transactivator (SS18-like protein 1) (SYT homolog 1)		
	Organism	Gene ID	UniProt ID
	Human	26039;	O75177;
	Mouse	269397;	Q8BW22;
	Rat	192352;	Q91XJ0;
Cellular Localization	Nucleus . Chromosome, centromere, kinetochore . Localizes to nuclear bodies. Colocalizes with SGO1 at kinetochore (By similarity). .		
Tissue specificity	Ubiquitous; with lowest levels in spleen.		
Function	Transcriptional activator which is required for calcium-dependent dendritic growth and branching in cortical neurons. Recruits CREB-binding protein (CREBBP) to nuclear bodies. Component 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. In resting neurons, transcription of the c-FOS promoter is inhibited by BRG1-dependent recruitment of a phospho-RB1-HDAC1 repressor complex. Upon calcium influx, RB1 is dephosphorylated by calcineurin, which leads to release of the repressor complex. At the same time, there is increased recruitment of CREBBP to the promoter by a CREST-dependent mechanism, which leads to transcriptional activation. The CREST-BRG1 complex also binds to the NR2B promoter, and activity-dependent induction of NR2B expression involves a release of HDAC1 and recruitment of CREBBP (By similarity).		

| Validation Data

| Contact information

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