

Product datasheet

Anti-CREST antibody ab222312

1 Image

Overview

Product name	Anti-CREST antibody	
Description	Rabbit polyclonal to CREST	
Host species	Rabbit	
Tested applications	Suitable for: ICC/IF	
Species reactivity	Reacts with: Human	
Immunogen	Recombinant fragment corresponding to Human CREST aa 83-133. Sequence: MNLGPGALTQSGSSQGLHSQGSLSDAISTGLPPSSLL QGQIGNGPSHVSM Q Database link: O75177	 Run BLAST with  Run BLAST with
Positive control	ICC/IF: RH-30 cells.	

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Preservative: 0.02% Sodium azide Constituents: 40% Glycerol, PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab222312** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use a concentration of 1 - 4 µg/ml. Fixation/Permeabilization: PFA/Triton X-100.

Target

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.
Tissue specificity	Ubiquitous; with lowest levels in spleen.
Sequence similarities	Belongs to the SS18 family.
Domain	The MFD (multi-functional domain) domain is involved in transcription transactivation, nuclear body targeting and dimerization.
Cellular localization	Nucleus. Chromosome > centromere > kinetochore. Localizes to nuclear bodies. Co-localizes with SGOL1 at kinetochore.

Images



PFA-fixed, Triton X-100 permeabilized RH-30 cells stained for CREST (green) using ab222312 at 4 µg/ml in ICC/IF.

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