

Product datasheet

Anti-CREST antibody ab222835

3 Images

Overview

Product name	Anti-CREST antibody
Description	Rabbit polyclonal to CREST
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB
Species reactivity	Reacts with: Mouse, Human
Immunogen	Recombinant fragment corresponding to Human CREST aa 47-396. Database link: O75177
Positive control	WB: Mouse kidney, lung and spleen tissue lysates. IHC-P: Human gastric cancer and brain tissues.

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: 7.4 Preservative: 0.03% Proclin Constituents: 50% Glycerol, PBS
Purity	Protein G purified
Purification notes	>95%
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab222835** in the following tested applications.

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

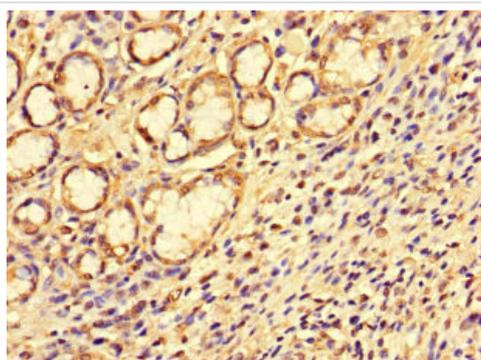
Application	Abreviews	Notes
IHC-P		1/20 - 1/200.

Application	Abreviews	Notes
WB		1/1000 - 1/5000. Detects a band of approximately 43 kDa (predicted molecular weight: 30,34,41,43,44 kDa).

Target

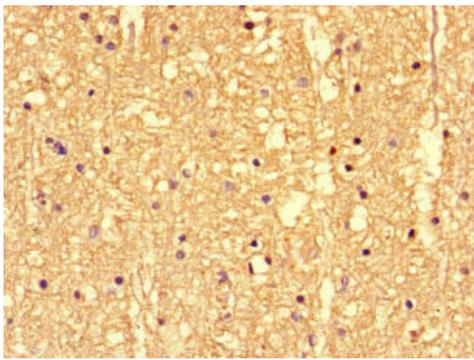
Function	Transcriptional activator which is required for calcium-dependent dendritic growth and branching in cortical neurons. Recruits CREB-binding protein (CREBBP) to nuclear bodies. Component of the CREST-BRG1 complex, a multiprotein complex that regulates promoter activation by orchestrating a calcium-dependent 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



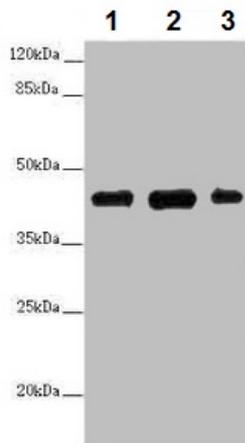
Paraffin-embedded human gastric cancer tissue stained for CREST using ab222835 at 1/100 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CREST antibody (ab222835)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CREST antibody (ab222835)

Paraffin-embedded human brain tissue stained for CREST using ab222835 at 1/100 dilution in immunohistochemical analysis.



Western blot - Anti-CREST antibody (ab222835)

All lanes : Anti-CREST antibody (ab222835) at 1/1000 dilution

Lane 1 : Mouse kidney tissue lysate

Lane 2 : Mouse lung tissue lysate

Lane 3 : Mouse spleen tissue lysate

Secondary

All lanes : Goat Anti-Rabbit IgG at 1/10000 dilution

Predicted band size: 30,34,41,43,44 kDa

Observed band size: 43 kDa

[why is the actual band size different from the predicted?](#)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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