abcam

Product datasheet

Anti-Separase antibody ab52158

1 References   **2 Images**

Overview

Product name	Anti-Separase antibody
Description	Rabbit polyclonal to Separase
Host species	Rabbit
Tested applications	**Suitable for:** IHC-P, WB
Species reactivity	**Reacts with:** Human
	Predicted to work with: Mouse ⚠
Immunogen	Synthetic non-phosphopeptide derived from human Separase around the phosphorylation site of serine 801 (N-S-S-P-V).
Positive control	human colon carcinoma, extracts from A431 cells
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.
	If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: PBS, 50% Glycerol (glycerin, glycerine), 0.87% Sodium chloride
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our **Abpromise guarantee** covers the use of ab52158 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		Use at an assay dependent concentration.
WB		1/500 - 1/1000. Detects a band of approximately >175 kDa (predicted molecular weight: 233 kDa).

Target

Function	Caspase-like protease, which plays a central role in the chromosome segregation by cleaving the SCC1/RAD21 subunit of the cohesin complex at the onset of anaphase. During most of the cell cycle, it is inactivated by different mechanisms.
Sequence similarities	Belongs to the peptidase C50 family.
Post-translational modifications	Autocleaves. This function, which is not essential for its protease activity, is unknown. Phosphorylated by CDK1. There are 8 Ser/Thr phosphorylation sites. Among them, Ser-1126 phosphorylation is the major site, which conducts to the enzyme inactivation.
Cellular localization	Cytoplasm. Nucleus.

Images
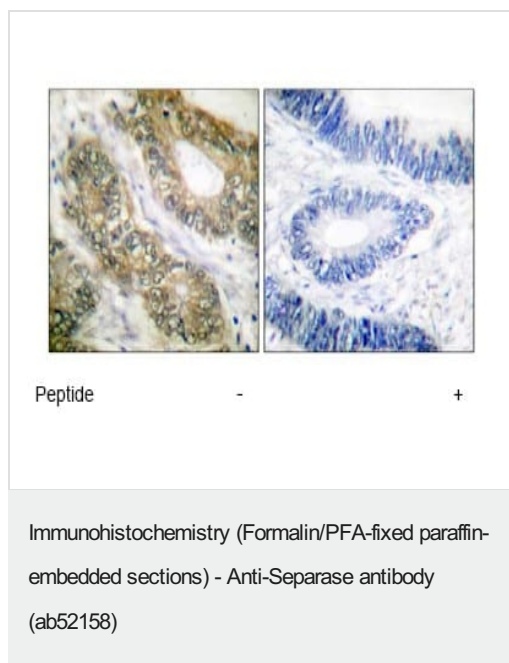

Western blot - Anti-Separase antibody (ab52158)
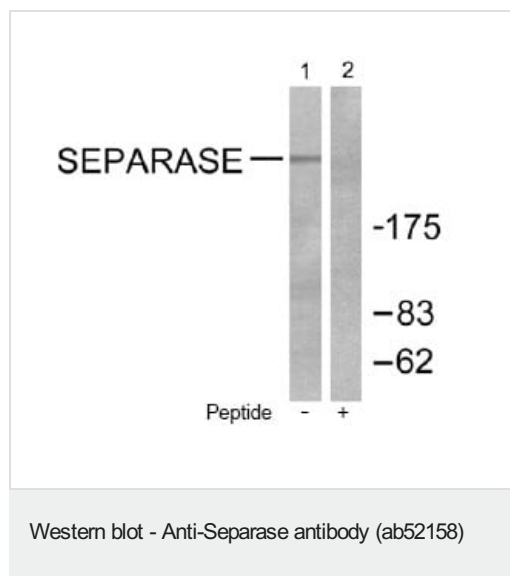
All lanes : Anti-Separase antibody (ab52158) at 1/500 dilution

Lane 1 : extracts from A431 cells
Lane 2 : extracts from A431 cells, with immunizing peptide

Predicted band size: 233 kDa
Observed band size: 233 kDa

Immunohistochemical analysis of separase expression in paraffin embedded human colon carcinoma tissue using ab52158 (1:50 dilution). Left: sample untreated. Right: sample treated with immunizing peptide (negative control).

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Separase antibody (ab52158)

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

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- Replacement or refund for products not performing as stated on the datasheet
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- Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.com/abpromise** or contact our technical team.

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