


Product datasheet

Anti-Separase antibody ab52158

[2 Images](#)

Overview

Product name	Anti-Separase antibody
Description	Rabbit polyclonal to Separase
Specificity	ab52158 detects endogenous levels of total SEPARASE protein.
Tested applications	Suitable for: IHC-P, WB, ELISA
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

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.02% Sodium Azide Constituents: 50% Glycerol, PBS, 150mM Sodium chloride, pH 7.4
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab52158** in the following tested applications.

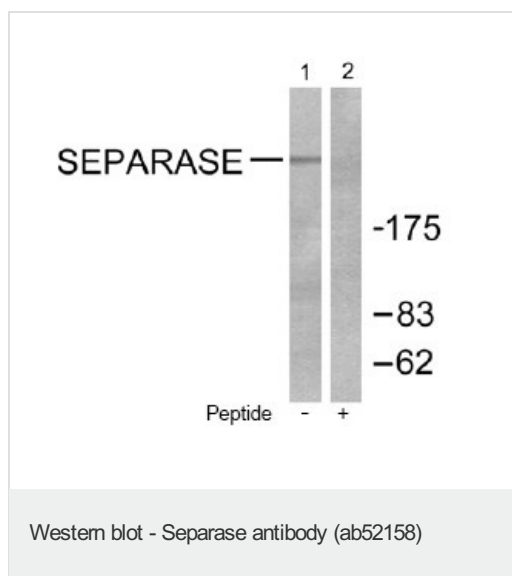
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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).
ELISA		1/40000.

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.

Anti-Separase antibody images



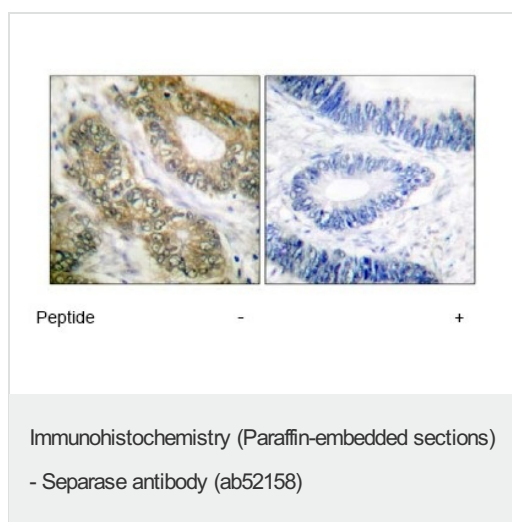
All lanes : Anti-Separase antibody (ab52158)
at 1/500 dilution

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).

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