


Product datasheet

Anti-Separase antibody ab52158

2 Images

Overview

<b>Product name</b>	Anti-Separase antibody
<b>Description</b>	Rabbit polyclonal to Separase
<b>Host species</b>	Rabbit
<b>Specificity</b>	ab52158 detects endogenous levels of total SEPARASE protein.
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, WB, ELISA
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse 
<b>Immunogen</b>	Synthetic non-phosphopeptide derived from human Separase around the phosphorylation site of serine 801 (N-S-S-P-V).
<b>Positive control</b>	human colon carcinoma, extracts from A431 cells

Properties

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

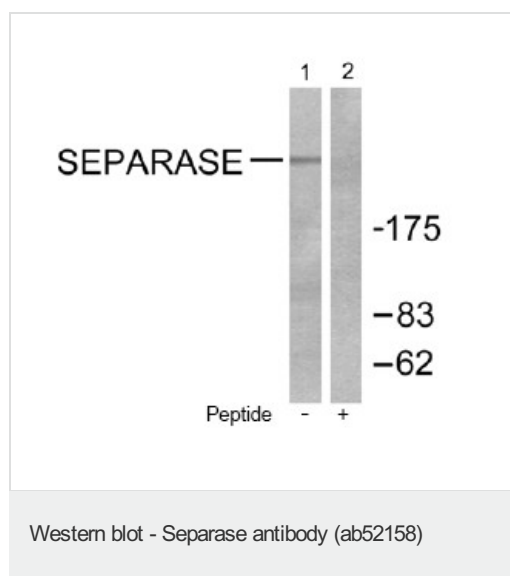
Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration.

Application	Abreviews	Notes
WB		1/500 - 1/1000. Detects a band of approximately >175 kDa (predicted molecular weight: 233 kDa).
ELISA		1/40000.

## Target

<b>Function</b>	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.
<b>Sequence similarities</b>	Belongs to the peptidase C50 family.
<b>Post-translational modifications</b>	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.
<b>Cellular localization</b>	Cytoplasm. Nucleus.

## Images



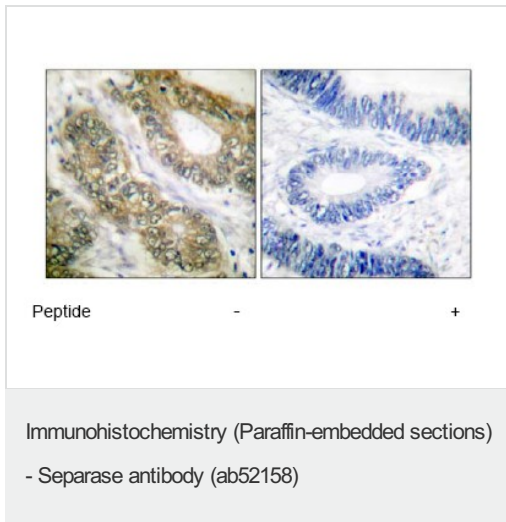
**All lanes** : Anti-Separase antibody (ab52158)  
at 1/500 dilution

**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).

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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