

**Separase rabbit pAb****Cat#: orb766298 (Manual)**

For research use only. Not intended for diagnostic use.

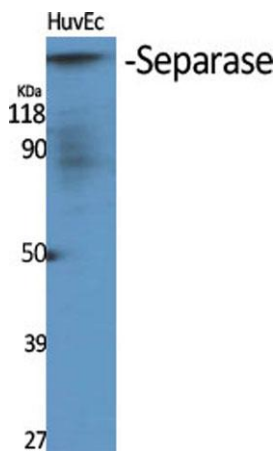
<b>Product Name</b>	Separase rabbit pAb
<b>Host species</b>	Rabbit
<b>Applications</b>	WB;IHC;IF;ELISA
<b>Species Cross-Reactivity</b>	Human;Mouse
<b>Recommended dilutions</b>	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/40000. Not yet tested in other applications.
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human SEPARASE. AA range:767-816
<b>Specificity</b>	Separase Polyclonal Antibody detects endogenous levels of Separase protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..
<b>Storage</b>	Store at -20°C. Avoid repeated freeze-thaw cycles.
<b>Protein Name</b>	Separin
<b>Gene Name</b>	ESPL1
<b>Cellular localization</b>	Cytoplasm. Nucleus.
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Clonality</b>	Polyclonal

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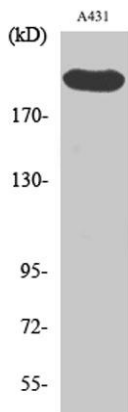
<b>Concentration</b>	1 mg/ml
<b>Observed band</b>	230kD
<b>Human Gene ID</b>	9700
<b>Human Swiss-Prot Number</b>	Q14674
<b>Alternative Names</b>	ESPL1; ESP1; KIAA0165; Separin; Caspase-like protein ESPL1; Extra spindle poles-like 1 protein; Separase

**Background**

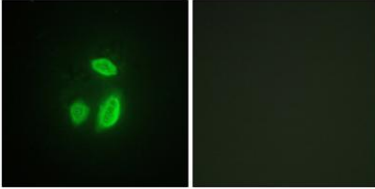
Stable cohesion between sister chromatids before anaphase and their timely separation during anaphase are critical for chromosome inheritance. In vertebrates, sister chromatid cohesion is released in 2 steps via distinct mechanisms. The first step involves phosphorylation of STAG1 (MIM 604358) or STAG2 (MIM 300826) in the cohesin complex. The second step involves cleavage of the cohesin subunit SCC1 (RAD21; MIM 606462) by ESPL1, or separase, which initiates the final separation of sister chromatids (Sun et al., 2009 [PubMed 19345191]).[supplied by OMIM, Nov 2010],



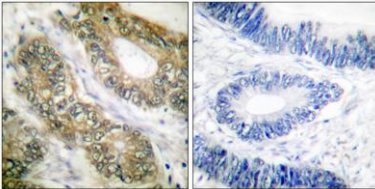
**Western Blot analysis of various cells using Separase Polyclonal Antibody diluted at 1:1000**



**Western Blot analysis of A431 cells using Separase Polyclonal Antibody diluted at 1:1000**



**Immunofluorescence analysis of HUVEC cells, using SEPARASE Antibody. The picture on the right is blocked with the synthesized peptide.**



**Immunohistochemistry analysis of paraffin-embedded human colon carcinoma tissue, using SEPARASE Antibody. The picture on the right is blocked with the synthesized peptide.**