

# Product Datasheet

## Separase Antibody (6H6) - Azide and BSA Free H00009700-M01

Unit Size: 0.1 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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**H00009700-M01**

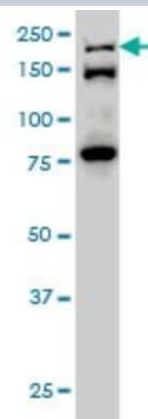
Separase Antibody (6H6) - Azide and BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	6H6
Preservative	No Preservative
Isotype	IgG2a Kappa
Purity	IgG purified
Buffer	In 1x PBS, pH 7.4
Product Description	
Description	Novus Biologicals Mouse Separase Antibody (6H6) - Azide and BSA Free (H00009700-M01) is a monoclonal antibody validated for use in IHC, WB, ELISA and ICC/IF. Anti-Separase Antibody: Cited in 13 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	9700
Gene Symbol	ESPL1
Species	Human, Mouse
Reactivity Notes	Other species not tested.
Specificity/Sensitivity	ESPL1 - extra spindle poles like 1 ( <i>S. cerevisiae</i> )
Immunogen	ESPL1 (NP_036423, 586 a.a. ~ 701 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. REELQAYKAVRADTGQERFNIICDLELSPEETPAGAWARATHLVELAQVLCYH DFTQQTNC SALDAIREALQLLDSVRPEAQARDQLLDDKAQALLWLYICTLEAKI QEGIERDR
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:500, ELISA 1:100-1:2000, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 1:10-1:500
Application Notes	Antibody reactive against cell lysate and recombinant protein for Western Blot. Has also been used for immunohistochemistry (paraffin) and ELISA. Use in Immunocytochemistry/immunofluorescence reported in scientific literature (PMID: 28859055).

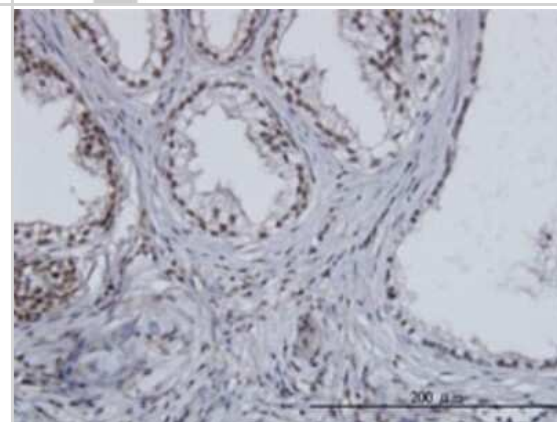


## Images

Western Blot: Separase Antibody (6H6) [H00009700-M01] - ESPL1 monoclonal antibody (M01), clone 6H6 Analysis of ESPL1 expression in Hela S3 NE.



Immunohistochemistry-Paraffin: Separase Antibody (6H6) [H00009700-M01] - Analysis of monoclonal antibody to ESPL1 on formalin-fixed paraffin-embedded human prostate. Antibody concentration 3 ug/ml.



## Publications

Vihervuori H, Autere T, Repo H et al. Tumor-infiltrating lymphocytes and CD8+ T cells predict survival of triple-negative breast cancer. *J Cancer Res Clin Oncol*. 2019-09-27 [PMID: 31562550]

Claudia G, Elena A, Maria U et al. Centrosome Reduction in Newly-Generated Tetraploid Cancer Cells Obtained by Separase Depletion. *Sci Rep*. 2020-06-04 [PMID: 32499568]

Hiba O, Cameron G, Mathieu M et al. Mitogen-Induced Defective Mitosis Transforms Neural Progenitor Cells. *Neuro Oncol*. 2023-04-26 [PMID: 37186014]

H V, K K, T A et al. Varying outcomes of triple-negative breast cancer in different age groups-prognostic value of clinical features and proliferation. *Breast Cancer Res Treat*. 2022-10-19 [PMID: 36261751]

C Thomas, B Wetherall, MD Levasseur, RJ Harris, ST Kerridge, JMG Higgins, OR Davies, S Madgwick A prometaphase mechanism of securin destruction is essential for meiotic progression in mouse oocytes *Nature Communications*, 2021-07-14;12(1):4322. 2021-07-14 [PMID: 34262048]

Repo H SECURIN-RELATED CELL PROLIFERATION IN BREAST CANCER PROGNOSIS Thesis 2020-01-01 (IHC-P, Human)

Gurvits N, Loytyniemi E, Nykanen M et al. Separase is a marker for prognosis and mitotic activity in breast cancer. *Br. J. Cancer*. 2017-10-24 [PMID: 28859055] (IF/IHC, ICC/IF, Human)

Mukherjee M, Ge G, Zhang N et al. Separase Loss of Function Cooperates with the Loss of p53 in the Initiation and Progression of T- and B-Cell Lymphoma, Leukemia and Aneuploidy in Mice. *PLoS One*. 2011-07-25 [PMID: 21799785]

Panigrahi AK, Zhang N, Mao Q, Pati D. Calpain-1 Cleaves Rad21 to Promote Sister Chromatid Separation. *Mol Cell Biol*. 2011-08-29 [PMID: 21876002]

Mukherjee M, Ge G, Zhang N et al. MMTV-Espl1 transgenic mice develop aneuploid, estrogen receptor alpha (ERalpha)-positive mammary adenocarcinomas. *Oncogene*. 2013-11-25 [PMID: 24276237]

Zhang N, Scorsone K, Ge G et al. Identification and Characterization of Separase Inhibitors (Sepins) for Cancer Therapy. *J Biomol Screen*. 2014-02-19 [PMID: 24525869]

Mukherjee M, Byrd T, Brawley VS et al. Overexpression and constitutive nuclear localization of cohesin protease Separase protein correlates with high incidence of relapse and reduced overall survival in glioblastoma multiforme. *J Neurooncol*. 2014-05-04 [PMID: 24792645]

More publications at <http://www.novusbio.com/H00009700-M01>





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General: novus@novusbio.com

### **Products Related to H00009700-M01**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96981-0.5mg	Mouse IgG2a Kappa Isotype Control (M2AK)
BC110-55295PEP	Separase Antibody Blocking Peptide

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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