

Product Datasheet

Survivin Antibody (8E2) - BSA Free NB500-644

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NB500-644

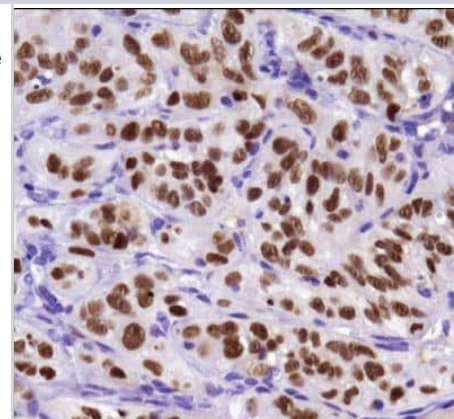
Survivin Antibody (8E2) - BSA Free

| Product Information | |
|------------------------------------|--|
| Unit Size | 0.1 ml |
| Concentration | 1 mg/ml |
| Storage | Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles. |
| Clonality | Monoclonal |
| Clone | 8E2 |
| Preservative | 0.05% Sodium Azide |
| Isotype | IgG1 Kappa |
| Purity | Protein G purified |
| Buffer | Tris-Glycine and 0.15M NaCl |
| Target Molecular Weight | 16 kDa |
| Product Description | |
| Description | Novus Biologicals Mouse Survivin Antibody (8E2) - BSA Free (NB500-644) is a monoclonal antibody validated for use in IHC, ELISA, Flow and ICC/IF. Anti-Survivin Antibody: Cited in 14 publications. All Novus Biologicals antibodies are covered by our 100% guarantee. |
| Host | Mouse |
| Gene ID | 332 |
| Gene Symbol | BIRC5 |
| Species | Human |
| Immunogen | This Survivin Antibody (8E2) was developed against full length recombinant human Survivin [UniProt# O15392] |
| Product Application Details | |
| Applications | Immunohistochemistry-Paraffin, ELISA, Flow Cytometry, Flow (Intracellular), Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, In vitro assay, Block/Neutralize |
| Recommended Dilutions | Flow Cytometry 1 ug/mL. Use reported in scientific literature (PMID 11313271), ELISA reported in scientific literature (PMID 9581817), Immunohistochemistry 1:100, Immunocytochemistry/ Immunofluorescence 1:50-1:100, Immunohistochemistry-Paraffin 1:100, In vitro assay, Flow (Intracellular), Block/Neutralize reported in scientific literature (PMID 14614132) |
| Application Notes | For IHC, heat induced antigen retrieval using citrate buffer is required. |



Images

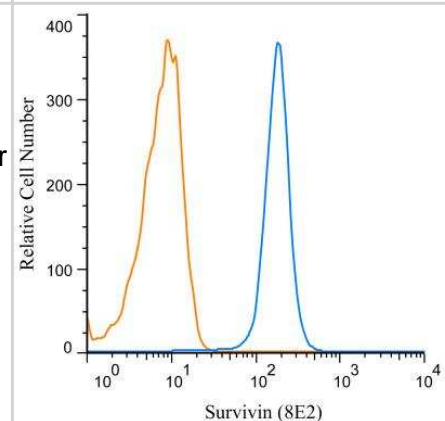
Immunohistochemistry: Survivin Antibody (8E2) [NB500-644] - Immunohistochemical analysis of Survivin in human breast cancer tissue using Survivin Antibody (8E2) [NB500-644] and DAB with hematoxylin counterstain.



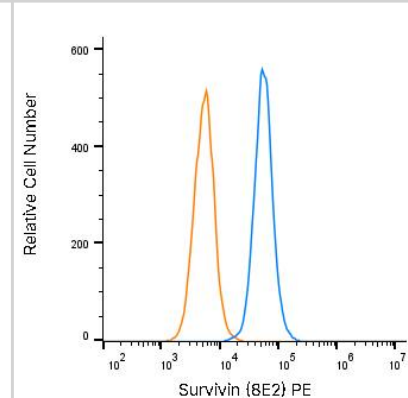
Immunocytochemistry/Immunofluorescence: Survivin Antibody (8E2) [NB500-644] - Immunocytochemical analysis using Survivin Antibody (8E2) [NB500-644] was tested in HeLa cells with FITC (green). Nuclei were counterstained with DAPI (blue).



Flow (Intracellular): Survivin Antibody (8E2) [NB500-644] - An intracellular stain was performed on Daudi cells with Survivin Antibody (8E2) [NB500-644] (blue) and a matched isotype control NBP2-27287 (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 1 $\mu\text{g}/\text{mL}$ for 30 minutes, followed by mouse F(ab)₂ IgG (H+L) APC-conjugated secondary antibody (F0101B, R&D Systems).



An intracellular stain was performed on U-2 OS human osteosarcoma cell line with Mouse anti-Survivin (8E2) Protein-G purified Monoclonal Antibody conjugated to Phycoerythrin (Catalog # NB500-644PE, blue histogram) or matched control antibody (orange histogram) at 2.5 $\mu\text{g}/\text{mL}$ for 30 minutes at RT.



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Publications

Biber III JC Mechanotransduction in Vascular Smooth Muscle Cells: Survivin as a Mediator of Stiffness Induced Cell Cycling and Proliferation Thesis 2023-01-01 (IB)

Lu CD, Altieri DC, Tanigawa N. Expression of a novel antiapoptosis gene, survivin, correlated with tumor cell apoptosis and p53 accumulation in gastric carcinomas. *Cancer Res.* 1998-05-01 [PMID: 9581817] (IHC-P, ELISA, Human)

Fortugno P, Beltrami E, Plescia et al. Regulation of survivin function by Hsp90. *Proc Natl Acad Sci U S A.* 2003-11-25 [PMID: 14614132] (B/N, ELISA, Human)

Rosato A, Menin C, Boldrin D et al. Survivin expression impacts prognostically on NSCLC but not SCLC Lung Cancer 2012-12-03 [PMID: 23218791] (IF/IHC, Human)

Zeng SX, Li Y, Jin Y, Zhang Q, Keller DM, McQuaw CM, Barklis E, Stone S, Hoatlin M, Zhao Y, Lu H. Structure-specific recognition protein 1 facilitates microtubule growth and bundling required for mitosis. *Mol Cell Biol*30(4):935-47. 2010-02-01 [PMID: 19995907]

Tanaka K, Iwamoto S, Gon G, Nohara T, Iwamoto M, Tanigawa N. Expression of survivin and its relationship to loss of apoptosis in breast carcinomas. *Clin Cancer Res*;6(1):127-34. 2000-01-01 [PMID: 10656440] (IHC-P)

Grossman D, McNiff JM, Li F, Altieri DC. Expression and targeting of the apoptosis inhibitor, survivin, in human melanoma. *J Invest Dermatol*;113(6):1076-81. 1999-12-01 [PMID: 10594755] (FLOW, Human)

Fortugno P, Wall NR, Giodini A, O'Connor DS, Plescia J, Padgett KM, Tognin S, Marchisio PC, Altieri DC. Survivin exists in immunochemically distinct subcellular pools and is involved in spindle microtubule function. *J Cell Sci*115(Pt 3):575-85. 2002-02-01 [PMID: 11861764] (ICC/IF, Human)

Wheatley SP, Carvalho A, Vagnarelli P, Earnshaw WC. INCENP is required for proper targeting of Survivin to the centromeres and the anaphase spindle during mitosis. *Curr Biol*11(11):886-90. 2001-06-05 [PMID: 11516652]

Kawasaki H, Toyoda M, Shinohara H, Okuda J, Watanabe I, Yamamoto T, Tanaka K, Tenjo T, Tanigawa N. Expression of survivin correlates with apoptosis, proliferation, and angiogenesis during human colorectal tumorigenesis. *Cancer*91(11):2026-32. 2001-06-01 [PMID: 11391581]

Granziero L, Ghia P, Circosta P, Gottardi D, Strola G, Geuna M, Montagna L, Piccoli P, Chilosi M, Caligaris-Cappio F. Survivin is expressed on CD40 stimulation and interfaces proliferation and apoptosis in B-cell chronic lymphocytic leukemia. *Blood*;97(9):2777-83. 2001-05-01 [PMID: 11313271] (IHC-P, FLOW, Human)

Carvalho A, Carmena M, Sambade C, Earnshaw WC, Wheatley SP. Survivin is required for stable checkpoint activation in taxol-treated HeLa cells. *J Cell Sci*116(Pt 14):2987-98. 2003-07-15 [PMID: 12783991]

More publications at <http://www.novusbio.com/NB500-644>



Procedures

Protocol Specific for Survivin Antibody (8E2) [NB500-644]

Immunocytochemistry Protocol

Culture cells to appropriate density in 35 mm culture dishes or 6-well plates.

1. Remove culture medium and add 10% formalin to the dish. Fix at room temperature for 30 minutes.
2. Remove the formalin and add ice cold methanol. Incubate for 5-10 minutes.
3. Remove methanol and add washing solution (i.e. PBS). Be sure to not let the specimen dry out. Wash three times for 10 minutes.
4. To block nonspecific antibody binding incubate in 10% normal goat serum from 1 hour to overnight at room temperature.
5. Add primary antibody at appropriate dilution and incubate at room temperature from 2 hours to overnight at room temperature.
6. Remove primary antibody and replace with washing solution. Wash three times for 10 minutes.
7. Add secondary antibody at appropriate dilution. Incubate for 1 hour at room temperature.
8. Remove antibody and replace with wash solution, then wash for 10 minutes. Add Hoechst 33258 to wash solution at 1:25,000 and incubate for 10 minutes. Wash a third time for 10 minutes.
9. Cells can be viewed directly after washing. The plates can also be stored in PBS containing Azide covered in Parafilm (TM). Cells can also be cover-slipped using Fluoromount, with appropriate sealing.

Immunohistochemistry-Paraffin Embedded Sections

Antigen Unmasking:

Bring slides to a boil in 10 mM sodium citrate buffer (pH 6.0) then maintain at a sub-boiling temperature for 10 minutes. Cool slides on bench-top for 30 minutes.

Staining:

1. Wash sections in deionized water three times for 5 minutes each.
2. Wash sections in wash buffer for 5 minutes.
3. Block each section with 100-400 ul blocking solution for 1 hour at room temperature.
4. Remove blocking solution and add 100-400 ul diluted primary antibody. Incubate overnight at 4 C.
5. Remove antibody solution and wash sections in wash buffer three times for 5 minutes each.
6. Add 100-400 ul biotinylated diluted secondary antibody. Incubate 30 minutes at room temperature.
7. Remove secondary antibody solution and wash sections three times with wash buffer for 5 minutes each.
8. Add 100-400 ul Streptavidin-HRP reagent to each section and incubate for 30 minutes at room temperature.
9. Wash sections three times in wash buffer for 5 minutes each.
10. Add 100-400 ul DAB substrate to each section and monitor staining closely.
11. As soon as the sections develop, immerse slides in deionized water.
12. Counterstain sections in hematoxylin.
13. Wash sections in deionized water two times for 5 minutes each.
14. Dehydrate sections.
15. Mount coverslips.

*The above information is only intended as a guide. The researcher should determine what protocol best meets their needs. Please follow safe laboratory procedures.



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Products Related to NB500-644

| | |
|------------------|--|
| HAF007 | Goat anti-Mouse IgG Secondary Antibody [HRP] |
| NB7539 | Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP] |
| NBP1-43319-0.5mg | Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1) |
| NB500-644PE | Survivin Antibody (8E2) [PE] |

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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