

Product datasheet for **TA301428**

BIRC5 Mouse Monoclonal Antibody [Clone ID: 60.11]

Product data:

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| Product Type: | Primary Antibodies |
| Clone Name: | 60.11 |
| Applications: | ELISA, FC, ICC/IF, IHC, WB |
| Recommended Dilution: | Flow Cytometry: 1 ug/mL, ELISA, Proximity Ligation Assay, Immunohistochemistry: 1:50-1:200, Western Blot: 1:1000, Immunohistochemistry-Paraffin: 1:50-1:200, Knockdown Validated, Immunocytochemistry/ Immunofluorescence: 1:50-1:200, Immunohistochemistry-Frozen, Flow (Intracellular) |
| Reactivity: | Human, Mouse, Rat |
| Host: | Mouse |
| Isotype: | IgG2a, kappa |
| Clonality: | Monoclonal |
| Immunogen: | Recombinant human survivin, full-length |
| Formulation: | 0.1% sodium azide |
| Concentration: | lot specific |
| Purification: | protein G purified |
| Conjugation: | Unconjugated |
| Storage: | Store at -20°C as received. |
| Stability: | Stable for 12 months from date of receipt. |
| Gene Name: | baculoviral IAP repeat containing 5 |
| Database Link: | NP_001159 Entrez Gene 11799 Mouse Entrez Gene 64041 Rat Entrez Gene 332 Human O15392 |



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Background:

Regulated inhibition of programmed cell death (apoptosis) preserves normal homeostasis and tissue and organ morphogenesis. Aberrations in this process contribute to human diseases and cancer by abnormally prolonging cell viability. Recently, several apoptosis inhibitors related to the baculovirus iap gene have been found in various species, including human. IAP proteins contain one/three Cys/His baculovirus IAP repeats plus a C-terminal RING finger and are thought to block an evolutionary conserved step in apoptosis. Survivin encodes a structurally unique inhibitor of apoptosis (IAP). Survivin expression is turned off during fetal development and is not found in non-neoplastic adult human tissues. Survivin becomes abundantly re-expressed in transformed cells and in all of the most common cancers of lung, colon, pancreas, breast and prostate in vivo. Survivin appears to be situated at the crossroads of cell death and cell division, governing a checkpoint involved in cytokinesis while also suppressing apoptosis. Survivin is also abundantly expressed in brain tissues (astrocytes and some neurons) of adult rats following traumatic brain injury. Survivin has been found co-expressed with NeuN (mature neuronal marker) and PCNA (a cell cycle protein). Survivin might affect regulation of neural cell proliferative responses after brain injury.

Synonyms:

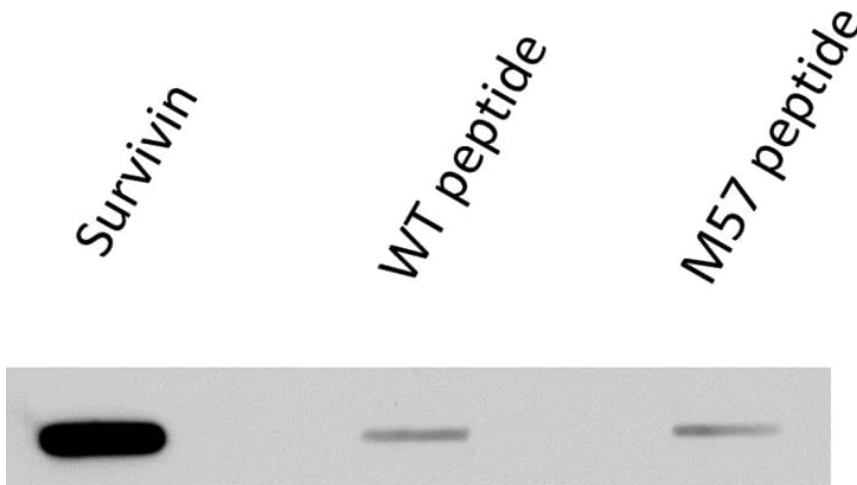
API4; EPR-1

Protein Families:

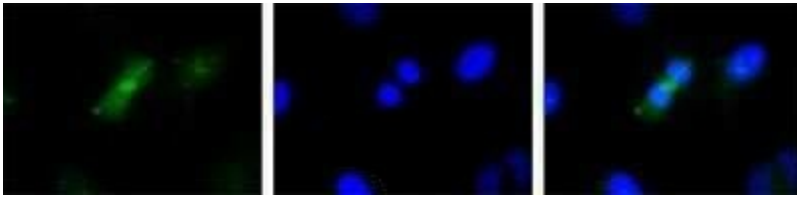
Druggable Genome, Stem cell - Pluripotency

Protein Pathways:

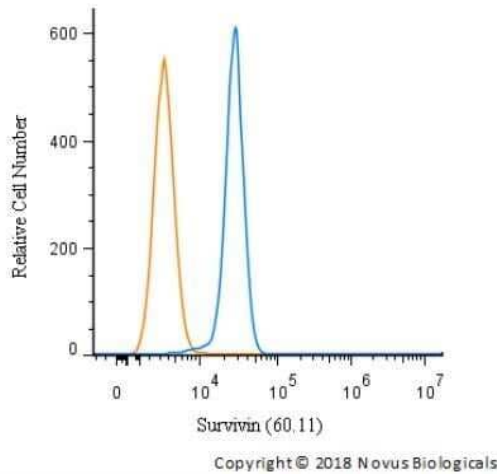
Colorectal cancer, Pathways in cancer

Product images:

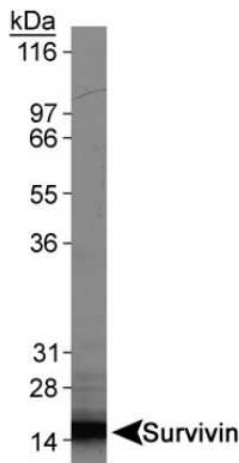
Binding of antibody (60.11) used in imaging flow cytometry to full-length survivin protein and to survivin vaccine peptide aa53-67/M57 and wild type peptide aa53-67



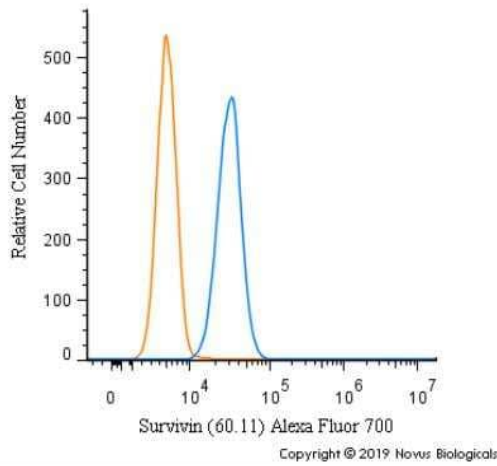
Immunocytochemistry/Immunofluorescence: Survivin Antibody (60.11) TA301428 - HeLa cells stained NB500-205 (Green) detected with DyLight Fluor 488 conjugated anti-mouse IgG secondary antibody. Nuclei are counterstained with Hoechst 33258 (Blue). Image using the Unpurified format of this antibody.



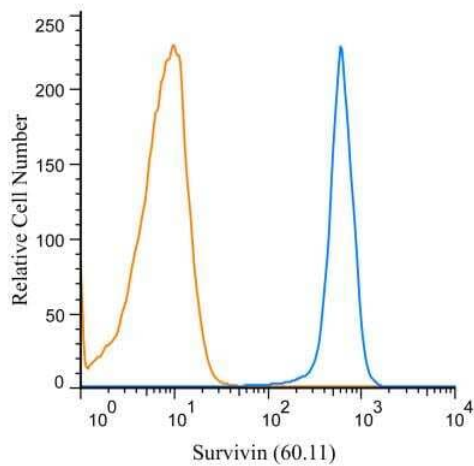
Flow (Intracellular): Survivin Antibody (60.11) TA301428 - An intracellular stain was performed on A549 cells with Survivin Antibody (60.11) TA301428 and a matched isotype control. Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 1 ug/mL for 30 minutes at room temperature, followed by mouse F(ab)₂ IgG (H+L) APC-conjugated secondary antibody (F0101B, R&D Systems). Image using the Unpurified form of this antibody.



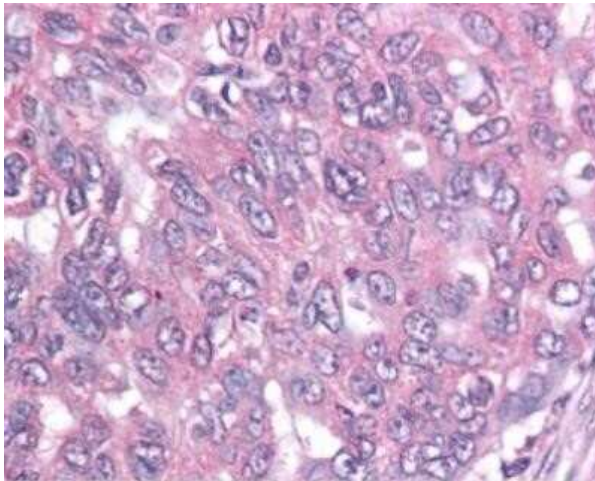
Western Blot: Survivin Antibody (60.11) TA301428 - Survivin detection in 30ug of HeLa whole cell extract using TA301428 at 1ug/ml. Detected at predicted molecular weight of 16 kDa.



Flow Cytometry: Survivin Antibody (60.11) TA301428 - An intracellular stain was performed on U2OS cells with Survivin Antibody (60.11) [TA301428AF700] (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 700.



Flow (Intracellular): Survivin Antibody (60.11) TA301428 - An intracellular stain was performed on Daudi cells with Survivin Antibody (60.11)TA301428 (blue) and a matched isotype control, Mouse IgG2a Kappa Light Chain Isotype Control (MG2a-53) [NB600-986] (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 1 ug/mL for 30 minutes at room temperature, followed by mouse F(ab)2 IgG (H+L) APC-conjugated secondary antibody (F0101B, R&D Systems).



Immunohistochemistry-Paraffin: Survivin Antibody (60.11) TA301428 - Staining of ovary cancer. Image using the Unpurified format of this antibody.