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Product datasheet for TA301425

BIRC5 Mouse Monoclonal Antibody [Clone ID: 60.11]

Product data:

Product Type:	Primary Antibodies
Clone Name:	60.11
Applications:	ELISA, FC, ICC/IF, IHC, IP, WB
Recommended Dilution:	Immunohistochemistry, Immunohistochemistry-Paraffin, Western Blot, Proximity Ligation Assay, Immunohistochemistry-Frozen, Flow Cytometry: 1:200, Immunocytochemistry/ Immunofluorescence: 1:100, Immunoprecipitation: 1:10-1:500, Knockdown Validated, ELISA
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2a, kappa
Clonality:	Monoclonal
Immunogen:	Full-length recombinant human survivin.
Formulation:	0.01M Na phosphate, 0.25M NaCl [pH 7.6], and 15 mg/ml BSA, 0.01% Thimerisol and 0.05% sodium azide
Purification:	Ascites
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 MouseEntrez Gene 64041 RatEntrez Gene 332 Human O15392

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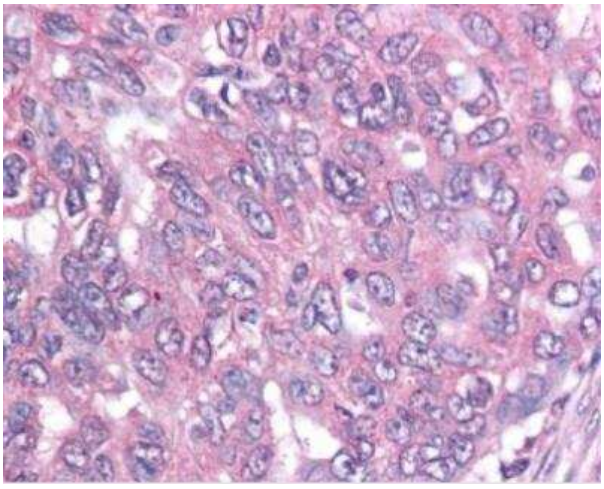
Background: Regulated inhibition of programmed cell death (apoptosis) preserves normal homeostasis and tissue and organ morphogenesis. Aberrations in this process contribute to human diseases and cancer by abnormally prolonging cell viability. Recently, several apoptosis inhibitors related to the baculovirus 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

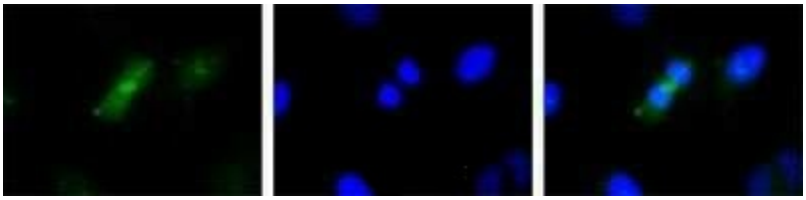
Protein Families: Druggable Genome, Stem cell - Pluripotency

Protein Pathways: Colorectal cancer, Pathways in cancer

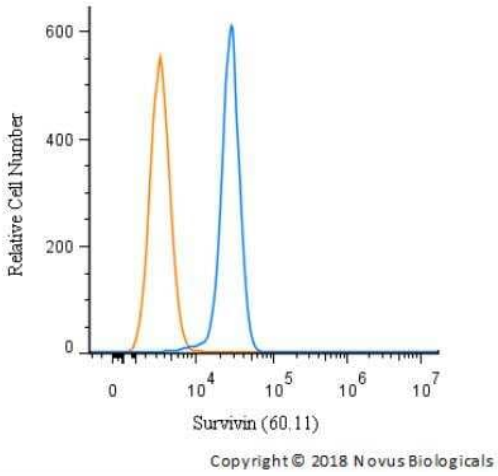
Product images:



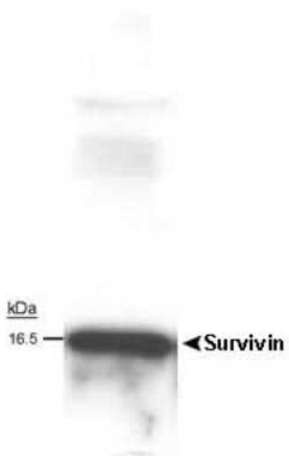
Immunohistochemistry-Paraffin: Survivin Antibody (60.11) - Unpurified TA301425 - Immunohistochemical staining of formalin-fixed paraffin-embedded ovarian cancer tissue using Survivin Antibody (60.11) - Unpurified TA301425.



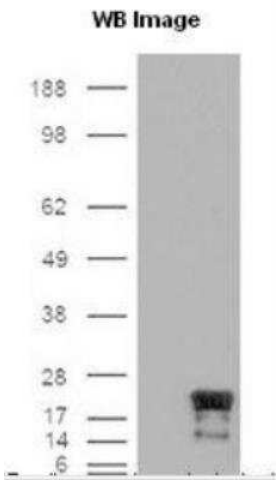
Immunocytochemistry/Immunofluorescence: Survivin Antibody (60.11) - Unpurified TA301425 - HeLa cells stained with Survivin Antibody (60.11) - Unpurified TA301425 (Green) and detected with DyLight Fluor 488 conjugated anti-mouse IgG secondary antibody. Nuclei are counterstained with Hoechst 33258 (Blue).



Flow Cytometry: Survivin Antibody (60.11) - Unpurified TA301425 - An intracellular stain was performed on A549 cells with Survivin Antibody (60.11) - Unpurified TA301425 and a matched isotype control. Cells were fixed with 4% PFA and then permeablized 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).



Western Blot: Survivin Antibody (60.11) - Unpurified TA301425 - Survivin detected in rat aorta smooth muscle cell lysate in western blot analysis using TA301425. Theoretical molecular weight: 16 kDa.



Western Blot: Survivin Antibody (60.11) - Unpurified TA301425 - Cells were transfected with the pCMV6-ENTRY control or pCMV6-ENTRY Survivin cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with TA301425. Note: theoretical molecular weight for Survivin is 16 kDa.