# Survivin (BIRC5) Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | Survivin (BIRC5), Polyclonal Antibody |
| **Full Product Name** | Survivin (API4, IAP4, Apoptosis inhibitor 4, Apoptosis inhibitor survivin, EPR-1, survivin, survivin variant 3 alpha, baculoviral IAP repeat-containing 5,) (PE) |
| **Product Gene Name** | anti-BIRC5 antibody |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. Labeled with R-Phycoerythrin (PE). |
| **Purity/Purification** | Purified by Immunoaffinity chromatography. |
| **Specificity** | Recognizes human Survivin. No crossreactivity with other proteins. |
| **Preparation and Storage** | Store at -20 degree C for one year. After reconstitution, store at 4 degree C for one month. Can also be aliquoted and stored frozen at -20 degree C for long term. |
| **Molecular Weight** | 16,389 Da |
| **Chromosome Location** | Chromosome: 17; NC_000017.10 (76210277..76221716). Location: 17q25 |
| **OMIM** | 603352 |
| **3D Structure** | ModBase 3D Structure for O15392 |
| **Immunogen** | E. coli-derived human Survivin recombinant protein (Position: M1-D142). |
| **Conjugate** | PE |
| **Note** | Preservative Free |
| **Product Categories/Family for anti-BIRC5 antibody** | Antibodies; Apoptosis |
| **Applications Tested/Suitable for anti-BIRC5 antibody** | ELISA (EIA), Western Blot (WB), Immunohistochemistry (IHC) Paraffin |
| **Application Notes for anti-BIRC5 antibody** | Applications are based on unconjugated antibody. |
| **Related Product Information for anti-BIRC5 antibody** | MBS6404676 is an antibody targeting BIRC5. Also known as Survivin (API4, IAP4, Apoptosis inhibitor 4, Apoptosis inhibitor survivin, EPR-1, survivin, survivin variant 3 alpha, baculoviral IAP repeat-containing 5,) (PE). Reactive in Human. Host: Rabbit. |
| **Product References and Citations for anti-BIRC5 antibody** | 1. Ambrosini, G., Adida, C., Altieri, D. C.A novel anti-apoptosis gene, survivin, expressed in cancer and lymphoma.Nature Med. 3: 917-921, 1997. 2. Chantalat, L., Skoufias, D. A., Kleman, J.-P., Jung, B., Dideberg, O., Margolis, R. L.Crystal structure of human survivin reveals a bow tie-shaped dimer with two unusual alpha-helical extensions.Molec. Cell 6: 183-189, 2000. |
| **Other Notes** | Small volumes of anti-BIRC5 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BIRC5. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 59859880 |
| **NCBI GeneID** | 332 |
| **NCBI Accession #** | NP_001012270.1 |
| **UniProt Primary Accession #** | O15392 |
| **UniProt Secondary Accession #** | Q2I3N8; Q4VGX0; Q53F61; Q5MGC6; Q6FHL2; Q75SP2; Q9P2W8; A2SUH6; B2R4R1 |
| **UniProt Related Accession #** | O15392 |
| **GenBank Nucleotide #** | NM_001012270.1 |
| **NCBI Official Full Name** | baculoviral IAP repeat-containing protein 5 isoform 2 |
| **NCBI Official Synonym Full Names** | baculoviral IAP repeat containing 5 |
| **NCBI Official Symbol** | BIRC5 |
| **NCBI Official Synonym Symbols** | API4; EPR-1 |
| **UniProt Protein Name** | Baculoviral IAP repeat-containing protein 5 |
| **UniProt Synonym Protein Names** | Apoptosis inhibitor 4; Apoptosis inhibitor survivin |
| **Protein Family** | Baculoviral IAP repeat-containing protein |
| **UniProt Gene Name** | BIRC5 |
| **UniProt Synonym Gene Names** | API4; IAP4 |
| **UniProt Entry Name** | BIRC5_HUMAN |
| **NCBI Protein Information** | baculoviral IAP repeat-containing protein 5; apoptosis inhibitor 4; survivin variant 3 alpha; apoptosis inhibitor survivin |
| **NCBI Summary for BIRC5** | This gene is a member of the inhibitor of apoptosis (IAP) gene family, which encode negative regulatory proteins that prevent apoptotic cell death. IAP family members usually contain multiple baculovirus IAP repeat (BIR) domains, but this gene encodes proteins with only a single BIR domain. The encoded proteins also lack a C-terminus RING finger domain. Gene expression is high during fetal development and in most tumors, yet low in adult tissues. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jun 2011] |

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| **UniProt Comments for BIRC5** | Survivin: an apoptosis inhibitor that is expressed during the G2/M phase of the cell cycle. Associates with the microtubules of the mitotic spindle and any disruption results in the loss of apoptosis activity. May play a role in neoplasia. Inhibitor of caspase-3 and caspase-7. Two splice variant isoforms have been described.<br><br>Protein type: Apoptosis<br><br>Chromosomal Location of Human Ortholog: 17q25<br><br>Cellular Component: centriole; nuclear chromosome; microtubule; spindle microtubule; cytoplasmic microtubule; cytoplasm; spindle; midbody; interphase microtubule organizing center; nucleus; cytosol; chromosome, pericentric region<br><br>Molecular Function: tubulin binding; identical protein binding; protein homodimerization activity; zinc ion binding; metal ion binding; microtubule binding; caspase inhibitor activity; ubiquitin-protein ligase activity; protein binding; enzyme binding; protein heterodimerization activity; chaperone binding; cysteine protease inhibitor activity; cofactor binding; Ran GTPase binding; cobalt ion binding<br><br>Biological Process: mitosis; transcription, DNA-dependent; spindle checkpoint; establishment of chromosome localization; regulation of signal transduction; cytokinesis; protein ubiquitination; negative regulation of caspase activity; positive regulation of mitotic cell cycle; protein amino acid phosphorylation; chromosome segregation; protein complex localization; cell division; positive regulation of cell proliferation; mitotic cell cycle; negative regulation of transcription, DNA-dependent; G2/M transition of mitotic cell cycle; positive regulation of exit from mitosis; negative regulation of apoptosis |
| **Research Articles on BIRC5** | **1.** expression of Survivin was negatively correlated with that of Fas (r = -0.517, p < 0.01), but positively correlated with that of FasL (r = 0.381, p < 0.01) in tissues of cervical cancer |
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