SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

**[ Primary Antibody ]**

# Rabbit Anti-BIRC6 antibody

**Catalog Number: SL1489R**

**FOR RESEARCH USE ONLY**

**[ DATASHEET ]**

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| **Host:** | Rabbit |
| **Isotype:** | IgG |
| **Clonality:** | Polyclonal |
| **Target:** | BIRC6 |
| **Immunogen:** | KLH conjugated synthetic peptide derived from human Apollon C terminus: 4701-4857/4857 |
| **Purification:** | affinity purified by Protein A |
| **Concentration:** | 1mg/ml |
| **Storage:** | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. |
| **Applications:** | IHC-P=1:100-500<br>IHC-F=1:100-500<br>IF=1:100-500 （Paraffin sections need antigen repair）<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user. |
| **Reactivity:** | Human(predicted:Mouse,Rat,Pig,Cow,Horse,Rabbit) |
| **Predicted MW.:** | 530kDa |
| **Subcellular Location:** | cytoplasmic |
| **Background:** | Conserved genes that encode inhibitors of apoptosis proteins (IAPs) are frequently overexpressed in human cancers and are associated with resistance to therapy. IAPs contain a 70 amino acid cysteine and histidine rich baculovirus IAP repeat (BIR) and often a zinc binding RING finger. Chen et al. (1999) found that some brain cancer cell lines with high expression of BIRC6 exhibited resistance to apoptosis in the presence of anticancer drugs. Treatment of a high expressing cell line with BIRC6 antisense oligonucleotides reduced BIRC6 expression and reversed the resistance to anticancer drugs.<br>**Function:** Anti-apoptotic protein which can regulate cell death by controlling caspases and by acting as an E3 ubiquitin-protein ligase. Has an unusual ubiquitin conjugation system in that it could combine in a single polypeptide, |

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| | ubiquitin conjugating (E2) with ubiquitin ligase (E3) activity, forming a chimeric E2/E3 ubiquitin ligase. Its tragets include CASP9 and DIABLO/SMAC. Acts as an inhibitor of CASP3, CASP7 and CASP9. Important regulator for the final stages of cytokinesis. Crucial for normal vesicle targeting to the site of abscission, but also for the integrity of the midbody and the midbody ring, and its striking ubiquitin modification.<br>**Subunit:** Homodimer. Binds the activated, processed forms of CASP3, CASP6, CASP7 and CASP9. Interacts with RNF41, DIABLO/SMAC, HTRA2, KIF23/MKLP1, USP8/UBPY, BIRC5/survivin, MAP2K1/MEK1, RAB8A/RAB8, RAB11A/RAB11, PLK1, EXOC3/SEC6 and EXOC4/SEC8.<br>**Subcellular Location:** Golgi apparatus, trans-Golgi network membrane. Midbody. Endosome. Cytoplasm, cytoskeleton, spindle pole. Cytoplasm, cytoskeleton, centrosome. Note=Concentrates in a pericentriolar compartment in interphase, moves partially to spindle poles in metaphase, and finally localizes to the spindle midzone and the midbody in telophase and during cytokinesis.<br>**Tissue Specificity:** Expressed in brain cancer cells.<br>**Post-translational modifications:** Ubiquitinated. Ubiquitination is mediated by the RNF41 E3 ligase and leads to proteasomal degradation, impairing inhibition of apoptosis. Deubiquitinated by USP8/UBPY.<br>**Similarity:** In the C-terminal section; belongs to the ubiquitin-conjugating enzyme family.<br>Contains 1 BIR repeat.<br>**Database links:**<br>**Entrez Gene:** 57448 Human<br>**Entrez Gene:** 12211 Mouse<br>Omim: 605638 Human<br>**SwissProt:** Q9NR09 Human<br>**SwissProt:** O88738 Mouse<br>**Unigene:** 150107 Human<br>**Unigene:** 290908 Mouse<br>ApollonIt is one of the members of the apoptosis inhibitor protein family IAP (inhibitors of apoptosis protein), and it exerts an anti-apoptotic effect by inhibiting the enzymatic activities of Smac and caspase-9. It is the member with the largest molecular weight in the IAP family,ApollonIt is expressed in certain Tumour tissues. |

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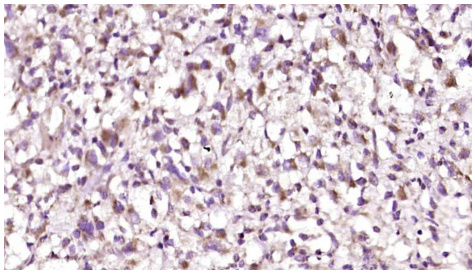
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## [ VALIDATION IMAGES ]



Paraformaldehyde-fixed, paraffin embedded (human brain glioma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (BIRC6) Polyclonal Antibody, Unconjugated (SL1489R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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