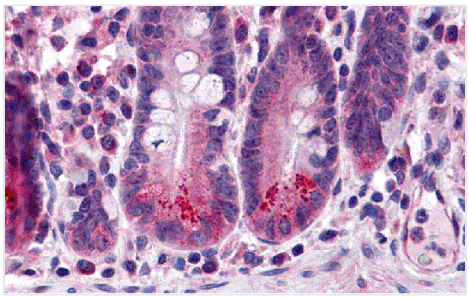
BIRC6 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	BRUCE (BIRC6), Polyclonal Antibody
Full Product Name	BRUCE Antibody
Product Gene Name	anti-BIRC6 antibody
Product Synonym Names	BRUCE; BRUCE; APOLLON; KIAA1289; Baculoviral IAP repeat-containing protein 6; BIR repeat-containing ubiquitin-conjugating enzyme; BRUCE; baculoviral IAP repeat-containing protein 6
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	BRUCE Antibody is affinity chromatography purified via peptide column.
Concentration	1 mg/mL (lot specific)
Specificity	BRUCE antibody is human specific. Multiple isoforms of BRUCE are known to exist.
Preparation and Storage	BRUCE antibody can be stored at 4 degree C for three months and -20 degree C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Antibody/Peptide Pairs	BRUCE peptide (MBS152301) is used for blocking the activity of BRUCE antibody (MBS151092)
Molecular Weight	534 kDa
OMIM	605638
3D Structure	ModBase 3D Structure for Q9NR09
Conjugate	Unconjugated
Immunogen	BRUCE antibody was raised against a 17 amino acid synthetic peptide near the carboxy terminus of human BRUCE.
Buffer	BRUCE Antibody is supplied in PBS containing 0.02% sodium azide.
Applications Tested/Suitable for anti-BIRC6 antibody	ELISA (EIA), Immunohistochemistry (IHC)
Application Notes for anti-BIRC6 antibody	BRUCE antibody can be used for detection of BRUCE by immunohistochemistry at 5 mug/mL.
Related Product Information for anti-BIRC6 antibody	BRUCE Antibody: Apoptosis, or programmed cell death, is related to many diseases, such as cancer. Apoptosis is triggered by a variety of stimuli including members in the TNF family and can be prevented by the inhibitor of apoptosis (IAP) proteins. IAP proteins form a conserved gene family that binds to and inhibits cell death proteases. BRUCE, also known as BIRC6, is an IAP family member protein with a BIR (baculoviral inhibition of apoptosis protein repeat) domain and a UBCc (ubiquitin-conjugating enzyme E2, catalytic) domain. BRUCE regulates p53 and the mitochondrial pathway of apoptosis by facilitating the degradation of apoptotic proteins such as Caspase-9 and SMAC by ubiquitination.
Other Notes	Small volumes of anti-BIRC6 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.

Searchable Terms for BIRC6 purchase	MBS151092 is an antibody targeting BIRC6. Also known as BRUCE Antibody. Reactive in Human. Host: Rabbit.



Immunohistochemistry (IHC) of anti-BIRC6 antibody
Immunohistochemistry of BRUCE in human small intestine tissue with BRUCE antibody at 5 ?g/mL.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BIRC6. It may not necessarily be applicable to this product.

NCBI GI #	153792694
NCBI GeneID	57448
NCBI Accession #	NP_057336
UniProt Primary Accession #	Q9NR09
UniProt Secondary Accession #	Q9ULD1
UniProt Related Accession #	Q9NR09
GenBank Nucleotide #	NM_016252.3
NCBI Official Full Name	baculoviral IAP repeat-containing protein 6
NCBI Official Synonym Full Names	baculoviral IAP repeat containing 6
NCBI Official Symbol	BIRC6
NCBI Official Synonym Symbols	BRUCE; APOLLON
UniProt Protein Name	Baculoviral IAP repeat-containing protein 6
UniProt Synonym Protein Names	BIR repeat-containing ubiquitin-conjugating enzyme; BRUCE; Ubiquitin-conjugating BIR domain enzyme apollon; APOLLON
Protein Family	Baculoviral IAP repeat-containing protein
UniProt Gene Name	BIRC6
UniProt Synonym Gene Names	KIAA1289; BRUCE; APOLLON
UniProt Entry Name	BIRC6_HUMAN
NCBI Protein Information	baculoviral IAP repeat-containing protein 6; baculoviral IAP repeat-containing 6; ubiquitin-conjugating BIR domain enzyme apollon; ubiquitin-conjugating BIR-domain enzyme apollon; BIR repeat-containing ubiquitin-conjugating enzyme
NCBI Summary for BIRC6	This gene encodes a protein with a BIR (baculoviral inhibition of apoptosis protein repeat) domain and a UBCc (ubiquitin-conjugating enzyme E2, catalytic) domain. This protein inhibits apoptosis by facilitating the degradation of apoptotic proteins by ubiquitination. [provided by RefSeq, Jul 2008]

UniProt Comments for BIRC6	BIRC6: 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, 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. 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. Expressed in brain cancer cells. Inhibited by DIABLO/SMAC, HTRA2, CASP3, CASP6, CASP7 and CASP9. Protein type: Ubiquitin ligase; EC 6.3.2.-; Ubiquitin conjugating system; EC 6.3.2.19 Chromosomal Location of Human Ortholog: 2p22.3 Cellular Component: spindle pole; membrane; microtubule organizing center; trans-Golgi network; midbody; endosome Molecular Function: protein binding; ubiquitin-protein ligase activity; cysteine protease inhibitor activity; ligase activity Biological Process: mitosis; apoptosis; cell division; positive regulation of cell proliferation; protein ubiquitination; regulation of cytokinesis; protein amino acid phosphorylation; regulation of cell proliferation; negative regulation of apoptosis
Research Articles on BIRC6	**1.** The expression of BIRC6 in the cytoplasm is associated with epithelial ovarian cancer (EOC) differentiation and may be a novel predictor for poor prognosis of EOC patients after curative resection.
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