

BCAP31 recombinant antibody

BCAP31 Recombinant Monoclonal Antibody

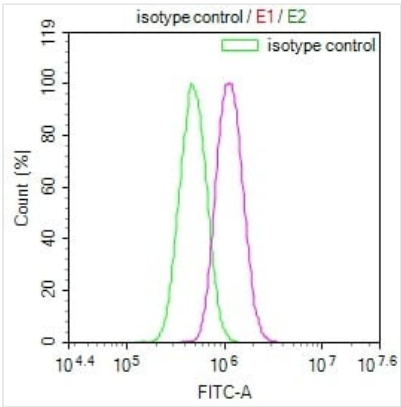
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA278972	HEK293F Cell	Human	Flow Cytometry, Functional Assay, Immunofluorescence, Immunohistochemistry, Western Blot, ELISA

PRODUCT SYNONYMS

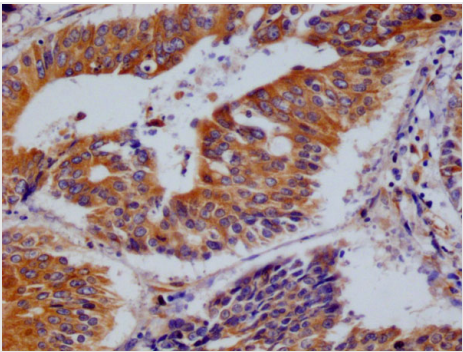
BCAP31; Monoclonal Recombinant Antibody; BCAP31 Recombinant Monoclonal Antibody; B-cell receptor-associated protein 31 (BCR-associated protein 31)(Bap31)(6C6-AG tumor-associated antigen)(Protein CDM)(p28); BAP31 DXS1357E; BCAP31 recombinant antibody

PRODUCT SPECIFICATIONS

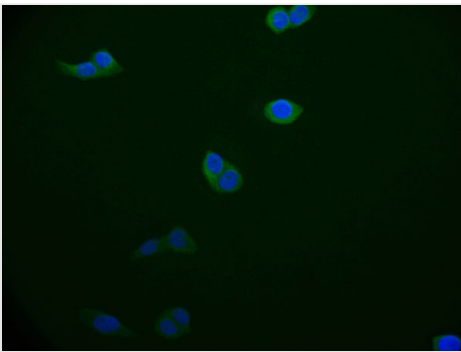
Host	HEK293F Cell
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	12G12
Purity/Purification	Affinity purified
Form/Format	Liquid; PBS, 150mM NaCl, 0.02% sodium azide, 50% glycerol, pH 7.4.
Applicable Applications for BCAP31 recombinant antibody	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot), ELISA
Immunogen Species	Human
Immunogen	A synthesized peptide derived from Human BCAP31
Conjugation	Non-conjugated
Research Area	Cell biology
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.



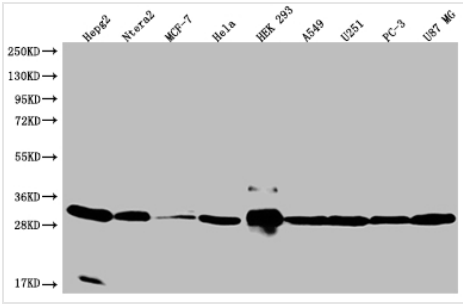
FCM/FACS (Flow Cytometry)
Overlay Peak curve showing PC3 cells stained with AAA278972 (red line) at 1:100. The cells were fixed in 4% formaldehyde and permeated by 0.2% TritonX-100. Then 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (1ug/1*106cells) for 45min at 4?. The secondary antibody used was FITC-conjugated Goat Anti-rabbit IgG(H+L) at 1:200 dilution for 35min at 4?. Control antibody (green line) was rabbit IgG (1ug/1*106cells) used under the same conditions. Acquisition of >10,000 events was performed.



IHC (Immunohistochemistry)
IHC image of AAA278972 diluted at 1:100 and staining in paraffin-embedded human colon cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.05% DAB.



IF (Immunofluorescence)
Immunofluorescence staining of A549 cell with AAA278972 at 1:50, counter-stained with DAPI. The cells were fixed in 4% formaldehyde and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 526-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



WB (Western Blot)
Western BlotPositive WB detected in: HepG2 whole cell lysate, Ntera-2 whole cell lysate, MCF-7 whole cell lysate, Hela whole cell lysate, HEK293 whole cell lysate, A549 whole cell lysate, U251 whole cell lysate, PC3 whole cell lysate, U87 whole cell lysateAll lanes: BCAP31 antibody at 1:2000SecondaryGoat polyclonal to rabbit IgG at 1/50000 dilutionPredicted band size: 28, 35 kDaObserved band size: 28-36 kDa

ADDITIONAL INFORMATION

Related Product Information for BCAP31 recombinant antibody	Functions as a chaperone protein (PubMed:9396746, PubMed:18287538). Is one of the most abundant endoplasmic reticulum (ER) proteins (PubMed:9396746, PubMed:18287538). Plays a role in the export of secreted proteins in the ER, the recognition of abnormally folded protein and their targeting to the ER associated-degradation (ERAD)(PubMed:9396746, PubMed:18287538). Also serves as a cargo receptor for the export of transmembrane proteins (By similarity). Plays a role in the assembly of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I) by stimulating the translocation of NDUFS4 and NDUFB11 from the cytosol to the mitochondria via interaction with TOMM40 (PubMed:31206022). In response to ER stress, delocalizes from the ER-mitochondria contact sites and binds BCL2 (PubMed:31206022). May be involved in CASP8-mediated apoptosis (PubMed:10958671). {ECO:0000250 UniProtKB:Q61335, ECO:0000269 PubMed:10958671, ECO:0000269 PubMed:18287538, ECO:0000269 PubMed:31206022, ECO:0000269 PubMed:9396746}.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	213511012
NCBI GeneID	10134
NCBI Accession #	NP_001132913.1

NCBI GenBank Nucleotide #	NM_001139441.1
UniProt Accession #	P51572 ; Q13836 ; Q96CF0 ; B3KQ79 ; D3DWW5
Molecular Weight	27,992 Da
NCBI Official Full Name	B-cell receptor-associated protein 31 isoform b
NCBI Official Synonym Full Names	B-cell receptor-associated protein 31
NCBI Official Symbol	BCAP31
NCBI Official Synonym Symbols	CDM; BAP31; 6C6-AG; DXS1357E
NCBI Protein Information	B-cell receptor-associated protein 31; p28 Bap31; BCR-associated protein Bap31; 6C6-AG tumor-associated antigen
UniProt Protein Name	B-cell receptor-associated protein 31
UniProt Gene Name	BCAP31
UniProt Synonym Gene Names	BAP31; DXS1357E; BCR-associated protein 31; Bap31
UniProt Entry Name	BAP31_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/bcap31-recombinant-antibody-clone-12g12-flow-cytometry-immunofluorescence-immunohistochemistry-western-blot-elisa/278972>