

Anti-BCAP31 Antibody (3E493)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	3E493
Purification:	Affinity-chromatography

Applications

1. Western Blot

- Positive 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 lysate
- All lanes: BCAP31 antibody at 1:2000
- Secondary: Goat polyclonal to rabbit IgG at 1/50000 dilution
- Predicted band size: 28, 35 kDa
- Observed band size: 28-36 kDa

Verified Activity:

2. IHC image of TMAH-00105 diluted at 1:100 and staining in paraffin-embedded human colon cancer performed on a Leica Bond™ 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.

3. Immunofluorescence staining of A549 cell with TMAH-00105 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).

4. Overlay Peak curve showing PC3 cells stained with TMAH-00105 (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*10⁶ cells) for 45min at 4°C. The secondary antibody used was FITC-conjugated Goat Anti-rabbit IgG (H+L) at 1:200 dilution for 35min at 4°C. Control antibody (green line) was rabbit IgG (1ug/1*10⁶ cells) used under the same conditions. Acquisition of >10,000 events was performed.

Application: ELISA,FCM,IF,IHC,WB

Recommended WB:1:500-1:2000; IHC:1:50-1:200; IF:1:50-1:200; FCM:1:50-1:200.

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: A synthetic peptide: Human BCAP31

Antigen Species: Human

Gene ID: 10134

Uniprot ID: P51572

Synonyms: BCR-associated protein 31;p28;Bap31;DXS1357E;Protein CDM;B-cell receptor-associated protein 31;6C6-AG tumor-associated antigen;BCAP 31

Biology Area: Cell biology

Research Background

Functions as a chaperone protein. Is one of the most abundant endoplasmic reticulum (ER) proteins. 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). Also serves as a cargo receptor for the export of transmembrane proteins. Plays a role in the assembly of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I) by stimulating the translocation of NDUF54 and NDUFB11 from the cytosol to the mitochondria via interaction with TOMM40. In response to ER stress, delocalizes from the ER-mitochondria contact sites and binds BCL2. May be involved in CASP8-mediated apoptosis.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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