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Recombinant Anti-BAP31 Rabbit mAb

Catalog # AP95233

Product Information

Application	WB, IHC, FC, IF/IC
Primary Accession	P51572
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Monoclonal
Calculated MW	27992

Additional Information

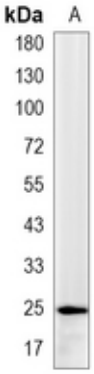
Gene ID	10134
Other Names	BAP31; DXS1357E; B-cell receptor-associated protein 31; BCR-associated protein 31; Bap31; 6C6-AG tumor-associated antigen; Protein CDM; p28
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within human BAP31 protein. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~1:10~50 IF/IC~~N/A
Format	Liquid in PBS, pH 7.3, 50% glycerol, 0.05% BSA, and 0.05% Proclin300.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

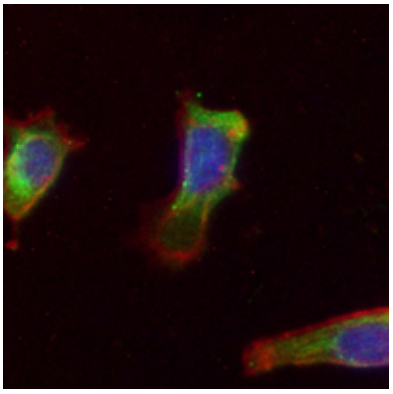
Name	BCAP31 (HGNC:16695)
Function	Functions as a chaperone protein (PubMed: 18287538, PubMed:9396746). Is one of the most abundant endoplasmic reticulum (ER) proteins (PubMed:18287538, PubMed:9396746). Plays a role in the export of secreted proteins in the ER, the recognition of abnormally folded protein and their targeting to the ER associated-degradation (ERAD) (PubMed:18287538, PubMed:9396746). 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).
Cellular Location	Endoplasmic reticulum membrane; Multi-pass membrane protein Endoplasmic reticulum-Golgi intermediate compartment membrane;

	Multi-pass membrane protein. Note=May shuttle between the ER and the intermediate compartment/cis-Golgi complex (PubMed:9396746). Associates with the mitochondria-associated endoplasmic reticulum membrane via interaction with TOMM40 (PubMed:31206022)
Tissue Location	Ubiquitous. Highly expressed in neurons and discrete endocrine cells.

Images



Western blot analysis of BAP31 expression in NCCIT (A) whole cell lysates. (Predicted band size: 28 kD; Observed band size: 25 kD)



Immunofluorescent analysis of BAP31 staining in NCCIT cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with an AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.