

BAP31 Rabbit mAb

Catalog # AP75145

Product Information

Application	WB, IHC-P, IHC-F
Primary Accession	P51572
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	27992

Additional Information

Gene ID	10134
Other Names	BCAP31
Dilution	WB~~1:1000-1:5000 IHC-P~~N/A IHC-F~~N/A
Format	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

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)

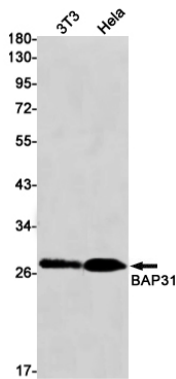
Tissue Location

Ubiquitous. Highly expressed in neurons and discrete endocrine cells.

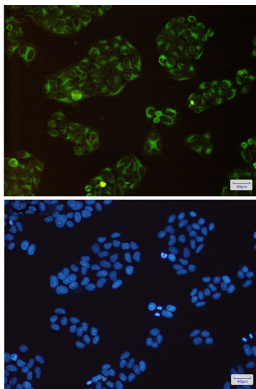
Background

This gene encodes a member of the B-cell receptor associated protein 31 superfamily. The encoded protein is a multi-pass transmembrane protein of the endoplasmic reticulum that is involved in the anterograde transport of membrane proteins from the endoplasmic reticulum to the Golgi and in caspase 8-mediated apoptosis. Microdeletions in this gene are associated with contiguous ABCD1/DXS1375E deletion syndrome (CADD5), a neonatal disorder. Alternative splicing of this gene results in multiple transcript variants. Two related pseudogenes have been identified on chromosome 16.

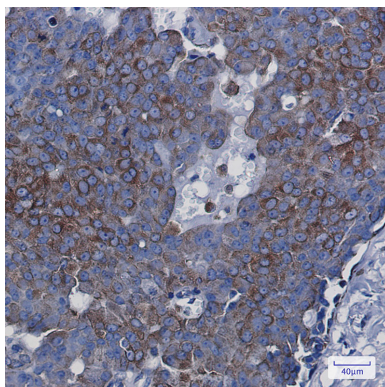
Images



Western blot analysis of BAP31 in K562, HeLa lysates using BAP31 antibody.



Immunocytochemistry analysis of BAP31(green) in HeLa using BAP31 antibody, and DAPI(blue)



Immunohistochemistry analysis of paraffin-embedded Human breast cancer using BAP31 antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.

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