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BAP31 Antibody

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AW5608

Product Information

Application	WB, IHC
Primary Accession	P51572
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	27992
Isotype	IgG1,K
Antigen Source	HUMAN

Additional Information

Gene ID	10134
Antigen Region	122-246
Other Names	B-cell receptor-associated protein 31, BCR-associated protein 31, Bap31, 6C6-AG tumor-associated antigen, Protein CDM, p28, BCAP31, BAP31, DXS1357E
Dilution	WB~~1:2000 IHC~~1:100~500
Target/Specificity	This BAP31 antibody is generated from a mouse immunized with a recombinant.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	BAP31 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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.

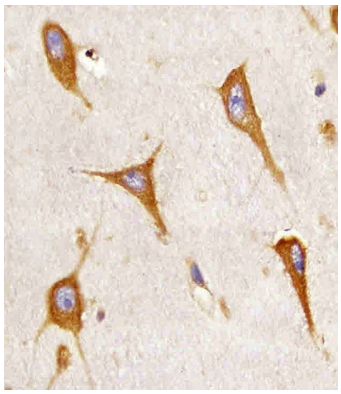
Background

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. May be involved in CASP8- mediated apoptosis.

References

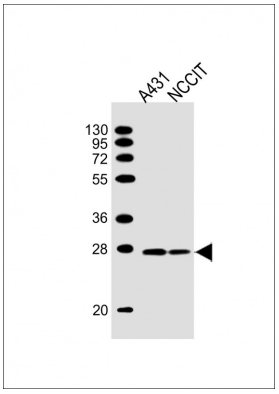
Mosser J.,et al.Genomics 22:469-471(1994).
Li E.,et al.Eur. J. Biochem. 238:631-638(1996).
Adachi T.,et al.EMBO J. 15:1534-1541(1996).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Ross M.T.,et al.Nature 434:325-337(2005).

Images



AW5606 staining BAP31 in human brain sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0. 5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hours at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.

All lanes : Anti-BAP31 Antibody at 1:2000 dilution Lane 1: A431 whole cell lysate Lane 2: NCCIT whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 28 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



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