10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

BAP31 Antibody
Catalog # ASC10381

Specification

BAP31 Antibody - Product Information

Application	**WB, IHC-P, E**
Primary Accession	P51572
Other Accession	NP_005736, 32171186
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Application Notes	**BAP31 antibody can be used for the detection of BAP31 by Western blot at 0.5 - 2 µg/mL. Antibody can also be used for immunohistochemistry starting at 2 µg/mL.**

BAP31 Antibody - Additional Information

Gene ID **10134**

Other Names
BAP31 Antibody: CDM, DDCH, BAP31, 6C6-AG, DXS1357E, B-cell receptor-associated protein 31, 6C6-AG tumor-associated antigen, BCR-associated protein 31, B-cell receptor-associated protein 31

Target/Specificity
BCAP31;

Reconstitution & Storage
BAP31 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Precautions
BAP31 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

BAP31 Antibody - 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)

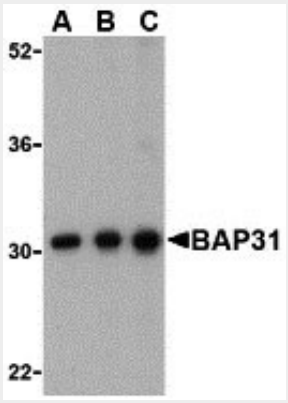
Tissue Location
Ubiquitous. Highly expressed in neurons and discrete endocrine cells.

BAP31 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

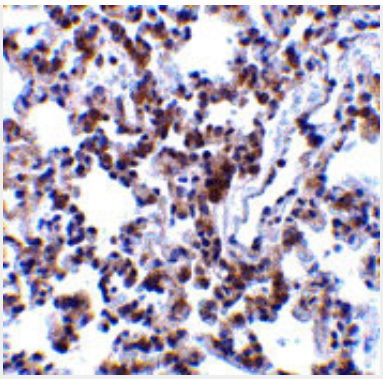
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

BAP31 Antibody - Images



Western blot analysis of BAP31 in Ramos cell lysate with BAP31 antibody at (A) 0.5, (B) 1 and (C) 2 µg/mL.

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



Immunohistochemistry of BAP31 in rat lung tissue with BAP31 antibody at 2 µg/mL.

BAP31 Antibody - Background

BAP31 Antibody: Bap31 and the related protein Bap29 are endoplasmic reticulum (ER) and ER-vesicle membrane proteins and members of the B-cell receptor-associated protein family. These two proteins are highly homologous and can form homo- and heterodimers. Bap31 is thought to be involved in the intracellular trafficking of several molecules such as MHC Class I molecules and CD11b/CD18. It may also play a role in the initiation of ER stress-induced apoptosis through its association with caspase-8 via a death effector domain in its cytoplasmic tail, possibly through the promotion of membrane fragmentation and the release of cytochrome c from mitochondria. Bap31 itself contains two caspase cleavage sites and is cleaved during apoptosis. The p20 fragment of Bap31, when expressed ectopicially, is also a potent inducer cell death.

BAP31 Antibody - References

Ng F, Nguyen M, Kwan T, et al. p28 BAP31, a Bcl-2/Bcl-XL- and procaspase-8-associated proteinin the endoplasmic reticulum. J. Cell Biol.1997; 139:327-38.
Kim KM, Adachi T, Nielsen PJ, et al. Two new proteins preferentially associated with membrane immunoglobulin D. EMBO J.1994; 13:3793-800.
Paquet M-E, Cohen-Doyle M, Shore GC, et al. Bap29/31 influences the intracellular traffic of MHC class I molecules. J. Immunol.2004; 172:7548-55.
Zen K, Utech M, Liu Y, et al. Association of BAP31 with CD11b/CD18. Potential role in intracellular trafficking of CD11b/CD18 in neutrophils. J. Biol. Chem.2004; 279:44924-30.