

BAP31 Antibody

Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only. Not for Use in Diagnostic Procedures.

| Applications: | Reactivity: | Sensitivity: | MW (kDa): | Source/Isotype: | UniProt ID: | Entrez-Gene Id: |
|---------------|-------------|--------------|-----------|-----------------|-------------|-----------------|
| W, IP | H M R Mk | Endogenous | 28 | Rabbit | #P51572-2 | 10134 |

Product Usage Information**Application**

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:25

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

BAP31 Antibody detects endogenous levels of total BAP31 protein.

Species predicted to react based on 100% sequence homology

Bovine, Dog

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to a region surrounding Arg71 of BAP31. Antibodies were purified by peptide affinity chromatography.

Background

BAP31 (**B**-cell receptor-**a**ssociation **p**rotein 31) is a transmembrane protein associated with the endoplasmic reticulum (ER) and ER-Golgi intermediates and has been implicated in protein trafficking and apoptosis (1,2). During apoptosis Bap31 is cleaved by caspase-8 at two carboxy-terminal sites which can then direct apoptotic signals between the ER and mitochondria (2-4). Association of BAP31 with the anti-apoptotic proteins Bcl-2 or Bcl-xL could function to regulate this ER-mitochondrial pathway (2,5). Several studies have shown that BAP31 can control the trafficking of select proteins between the ER and Golgi apparatus and can affect the transport of proteins to the cell surface (6-10).

Background References

1. Adachi, T. et al. (1996) *EMBO J* 15, 1534-41.
2. Ng, F.W. et al. (1997) *J Cell Biol* 139, 327-38.
3. Breckenridge, D.G. et al. (2003) *J Cell Biol* 160, 1115-27.
4. Chandra, D. et al. (2004) *Mol Cell Biol* 24, 6592-607.
5. Ng, F.W. and Shore, G.C. (1998) *J Biol Chem* 273, 3140-3.
6. Annaert, W.G. et al. (1997) *J Cell Biol* 139, 1397-410.
7. Lambert, G. et al. (2001) *J Biol Chem* 276, 20340-5.
8. Schamel, W.W. et al. (2003) *Proc Natl Acad Sci USA* 100, 9861-6.
9. Paquet, M.E. et al. (2004) *J Immunol* 172, 7548-55.
10. Szczesna-Skorupa, E. and Kemper, B. (2006) *J Biol Chem* 281, 4142-8.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Mk:** Monkey

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