

#4043 Store at -20°C

BAP31 Antibody

✓ 100 µl
(10 western blots)

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This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

Entrez-Gene ID #27061
Swiss-Prot Acc. #Q61335

Applications	Species Cross-Reactivity*	Molecular Wt.	Source
W, IP Endogenous	H, M, R, Mk, (B, Dg)	28 kDa	Rabbit**

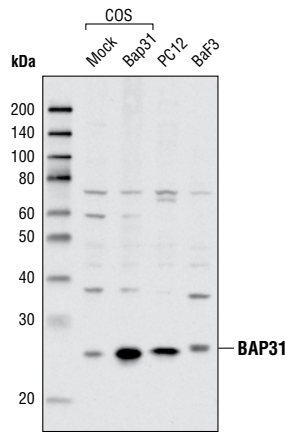
Background: BAP31 (B-cell receptor-association protein 31) is a transmembrane protein associated with the endoplasmic reticulum (ER) and ER-Golgi intermediates and has been implicated in protein trafficking and apoptosis (1,2). During apoptosis Bap31 is cleaved by caspase-8 at two carboxy-terminal sites 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).

Specificity/Sensitivity: BAP31 Antibody detects endogenous levels of total BAP31 protein.

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 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.



Western blot analysis of extracts from COS cells, mock transfected or transfected with human BAP31, and from various cell types using BAP31 Antibody.

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.

*Species cross-reactivity is determined by western blot.

**Anti-rabbit secondary antibodies must be used to detect this antibody.

Recommended Antibody Dilutions:

Western blotting	1:1000
Immunoprecipitation	1:25

For application specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.

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

Applications Key: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide
Species Cross-Reactivity Key: H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine
Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—Horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.