

**Goat Anti-BAK1 Antibody**  
Peptide-affinity purified goat antibody  
Catalog # AF1140a

## Specification

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### Goat Anti-BAK1 Antibody - Product Information

Application	WB
Primary Accession	<a href="#">Q16611</a>
Other Accession	<a href="#">NP_001179</a> , <a href="#">578</a> , <a href="#">12018 (mouse)</a> , <a href="#">116502 (rat)</a>
Reactivity	Human
Predicted	Mouse, Rat, Pig
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	23409

### Goat Anti-BAK1 Antibody - Additional Information

**Gene ID** 578

#### Other Names

Bcl-2 homologous antagonist/killer, Apoptosis regulator BAK, Bcl-2-like protein 7, Bcl2-L-7, BAK1, BAK, BCL2L7, CDN1

#### Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

#### Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### Precautions

Goat Anti-BAK1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

### Goat Anti-BAK1 Antibody - Protein Information

**Name** BAK1

**Synonyms** BAK, BCL2L7, CDN1

#### Function

Plays a role in the mitochondrial apoptotic process. Upon arrival of cell death signals, promotes mitochondrial outer membrane (MOM) permeabilization by oligomerizing to form pores within the MOM. This releases apoptogenic factors into the cytosol, including cytochrome c, promoting the

activation of caspase 9 which in turn processes and activates the effector caspases.

#### Cellular Location

Mitochondrion outer membrane; Single-pass membrane protein

#### Tissue Location

Expressed in a wide variety of tissues, with highest levels in the heart and skeletal muscle

### Goat Anti-BAK1 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 Cytometry](#)
- [Cell Culture](#)

### Goat Anti-BAK1 Antibody - Images



AF1140a staining (0.5 µg/ml) of A431 lysate (RIPA buffer, 30 µg total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.

### Goat Anti-BAK1 Antibody - Background

The protein encoded by this gene belongs to the BCL2 protein family. BCL2 family members form oligomers or heterodimers and act as anti- or pro-apoptotic regulators that are involved in a wide variety of cellular activities. This protein localizes to mitochondria, and functions to induce apoptosis. It interacts with and accelerates the opening of the mitochondrial voltage-dependent anion channel, which leads to a loss in membrane potential and the release of cytochrome c. This protein also interacts with the tumor suppressor P53 after exposure to cell stress.

### Goat Anti-BAK1 Antibody - References

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.

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Endogenous Bak inhibitors Mcl-1 and Bcl-xL: differential impact on TRAIL resistance in Bax-deficient carcinoma. Gillissen B, et al. J Cell Biol, 2010 Mar 22. PMID 20308427.