

#### DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human/Mouse/Rat                                                                                                                                                                                                                                                             |
| <b>Specificity</b>        | Detects endogenous human, mouse and rat BNIP3L in Western blots. In Western blots, less than 10% cross-reactivity to recombinant human BNIP3L is observed.                                                                                                                  |
| <b>Source</b>             | Polyclonal Goat IgG                                                                                                                                                                                                                                                         |
| <b>Purification</b>       | Antigen Affinity-purified                                                                                                                                                                                                                                                   |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant human BNIP3L<br>Ser2-Glu184<br>Accession # O60238                                                                                                                                                                                       |
| <b>Conjugate</b>          | Alexa Fluor 594<br>Excitation Wavelength: 590 nm<br>Emission Wavelength: 617 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

#### APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

|                            |                                                                        |
|----------------------------|------------------------------------------------------------------------|
| <b>Western Blot</b>        | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunocytochemistry</b> | Optimal dilution of this antibody should be experimentally determined. |

#### PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

#### BACKGROUND

Bcl-2/adenovirus E1B 19 kDa protein-interacting protein 3-like (BNIP3L) also known as BNIP3 alpha and NIP3-like protein X (Nix), is a proapoptotic member of BNIP3 protein family. BNIP3L is a functional homolog of BNIP3 and both proteins contain a single Bcl-2 homology 3 (BH3) domain. BNIP3L is a 219 amino acid (aa), 24 kDa (predicted) protein that contains a C-terminal transmembrane domain required for mitochondrial localization, homodimerisation, and regulation of its proapoptotic function. BNIP3L may antagonize the activity of BCL2 family antiapoptotic proteins by directly interacting with proteins such as viral E1B-19K and cellular Bcl-2 and Bcl-xL. BNIP3L shares 56% amino acid sequence identity with BNIP3 and 98% with mouse and rat BNIP3L.

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