Qty: 100 µg/200 µL

Mouse anti-Nix

Catalog No. 39-3300

Lot No.

Mouse anti-Nix

FORM

This monoclonal antibody is supplied as a 200 µL aliquot at a concentration of 0.5 mg/mL in PBS, pH 7.4, containing 0.1% sodium azide. This antibody is highly purified from mouse ascites by protein A chromatography.

CLONE: ZN002 **ISOTYPE:** Mouse IgG_1-kappa

IMMUNOGEN

Synthetic peptide derived from the internal region of human, mouse and rat Nix proteins

SPECIFICITY

This antibody is specific for the Nix (Nip3-like protein X, BNIP3α, BNIP3L) protein. On Western blots, it identifies the target band at ~40-50 kDa.

REACTIVITY

Reactivity has been confirmed with human K562 and mouse P3 myeloma cell lysates.

Sample	Western Blotting	ELISA
Human	+++	ND
Mouse	+++	ND
Immunogen	ND	+++

(Excellent +++, Good++, Poor +, No reactivity 0, Not applicable N/A, Not Determined ND)

USAGE

Working concentrations for specific applications should be determined by the investigator. Appropriate concentrations will be affected by several factors, including secondary antibody affinity, antigen concentration, sensitivity of detection method, temperature and length of incubations, etc. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product;

Western Blotting: 0.5-1.0 µg/mL
ELISA: 0.1-1.0 µg/mL

STORAGE

Store at 2-8°C for up to one month. Store at –20°C for long-term storage. Avoid repeated freezing and thawing.

(cont'd)

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BACKGROUND

Nix, also known as Nip3-like protein X, BNIP3α, Bcl-2/adenovirus E1B 19-kDa protein interacting 3-like, or Bcl-2/adenovirus E1B 19-kDa protein interacting 3α, is a member of the Bcl-2/adenovirus E1B 19-kDa interacting protein (BNIP) family of mitochondrial proteins[1]. Nix is a functional homolog of BNIP3, which physically interacts with the endogenous apoptosis suppressor protein Bcl-2 and the adenovirus encoded E1B 19-kDa apoptosis suppressor protein[2-3]. Nix may function simultaneously with BNIP3 to promote apoptosis and play a role in tumor suppression. Nix and BNIP3 have been shown to be induced by hypoxic conditions in human cell lines and tumor types[4].

REFERENCES

1. Matsushima M, et al. *Genes Chrom Cancer* 21:230-235, 1998.
2. Chen G, et al. *J Biol Chem* 274:7-10, 1999.
3. Yasuda M, et al. *Cancer Res* 59:533-537, 1999.
4. Sowter H, et al. *Cancer Res* 61:6669-6673, 2001.

RELATED PRODUCTS

Product	*Conjugate*	*Cat. No.*
Protein A	Sepharose® 4B	10-1041
rec-Protein G	Sepharose® 4B	10-1241

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