

**NIT1 Antibody (C-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP13042b****Specification**

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**NIT1 Antibody (C-term) Blocking peptide - Product Information**

Primary Accession [Q86X76](#)

**NIT1 Antibody (C-term) Blocking peptide - Additional Information**

**Gene ID** 4817

**Other Names**

Nitrilase homolog 1, 35--, NIT1

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**NIT1 Antibody (C-term) Blocking peptide - Protein Information**

**Name** NIT1

**Function**

Catalyzes the hydrolysis of the amide bond in N-(4-oxoglutarate)-L-cysteinylglycine (deaminated glutathione), a metabolite repair reaction to dispose of the harmful deaminated glutathione. Plays a role in cell growth and apoptosis: loss of expression promotes cell growth, resistance to DNA damage stress and increased incidence to NMBA-induced tumors. Has tumor suppressor properties that enhances the apoptotic responsiveness in cancer cells; this effect is additive to the tumor suppressor activity of FHIT. It is also a negative regulator of primary T-cells.

**Cellular Location**

[Isoform 2]: Mitochondrion {ECO:0000250|UniProtKB:Q8VDK1}

**Tissue Location**

Detected in heart, brain, placenta, liver, skeletal muscle, kidney and pancreas.

**NIT1 Antibody (C-term) Blocking peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**NIT1 Antibody (C-term) Blocking peptide - Images****NIT1 Antibody (C-term) Blocking peptide - Background**

This gene encodes a member of the nitrilase protein family with homology to bacterial and plant nitrilases, enzymes that cleave nitriles and organic amides to the corresponding carboxylic acids plus ammonia. Multiple transcript variants encoding different isoforms have been found for this gene.

**NIT1 Antibody (C-term) Blocking peptide - References**

Semba, S., et al. J. Biol. Chem. 281(38):28244-28253(2006) Wang, A.G., et al. Biochem. Biophys. Res. Commun. 345(3):1022-1032(2006) Pekarsky, Y., et al. Proc. Natl. Acad. Sci. U.S.A. 95(15):8744-8749(1998)