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NIT1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13042b

Product Information

Application	WB, E
Primary Accession	Q86X76
Other Accession	Q32LH4, NP_001172023.1, NP_005591.1, NP_001172022.1, NP_001172021.1
Reactivity	Human
Predicted	Bovine, Mouse, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB32905
Calculated MW	35896
Antigen Region	298-327

Additional Information

Gene ID	4817
Other Names	Nitrilase homolog 1, 35--, NIT1
Target/Specificity	This NIT1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 298-327 amino acids from the C-terminal region of human NIT1.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	NIT1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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

	(PubMed:38430071). 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.

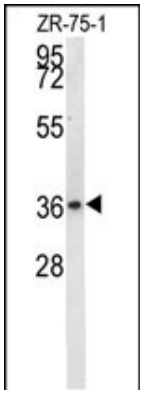
Background

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.

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)

Images



NIT1 Antibody (C-term) (Cat. #AP13042b) western blot analysis in ZR-75-1 cell line lysates (35ug/lane).This demonstrates the NIT1 antibody detected the NIT1 protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.