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Product datasheet for CF501109

NIT2 Mouse Monoclonal Antibody [Clone ID: OTI2B9]

Product data:

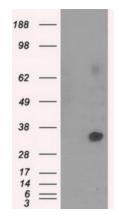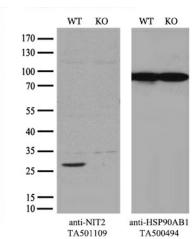|	
Product Type:	Primary Antibodies
Clone Name:	OTI2B9
Applications:	FC, IF, IHC, WB
Recommended Dilution:	WB 1:2000, IHC 1:50, IF 1:100, Flow 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human NIT2 (NP_064587) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	30.4 kDa
Gene Name:	nitrilase family member 2
Database Link:	NP_064587 Entrez Gene 52633 MouseEntrez Gene 288174 RatEntrez Gene 56954 Human Q9NQR4

View online »

Background:

Has a omega-amidase activity. The role of omega-amidase is to remove potentially toxic intermediates by converting alpha-ketoglutaramate and alpha-ketosuccinamate to biologically useful alpha-ketoglutarate and oxaloacetate, respectively. Overexpression decreases the colony-forming capacity of cultured cells by arresting cells in the G2 phase of the cell cycle

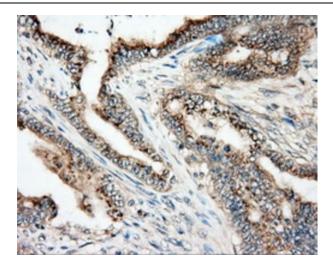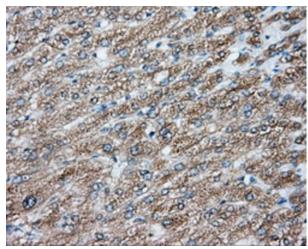**Synonyms:**   HEL-S-8a

Product images:

HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY NIT2 (Cat# [RC210660], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-NIT2(Cat# [TA501109]). Positive lysates [LY402761] (100ug) and [LC402761] (20ug) can be purchased separately from OriGene.

Equivalent amounts of cell lysates (10 ug per lane) of wild-type 293T cells (WT, Cat# LC810293T) and NIT2-Knockout 293T cells (KO, Cat# [LC812235]) were separated by SDS-PAGE and immunoblotted with anti-NIT2 monoclonal antibody [TA501109], (1:500). Then the blotted membrane was stripped and reprobed with anti-HSP90AB1 antibody ([TA500494]) as a loading control.
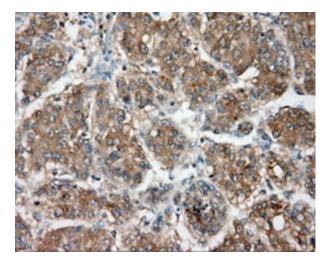
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of colon tissue using anti-NIT2 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.
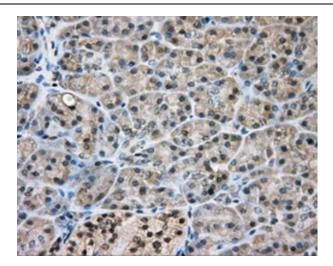

Immunohistochemical staining of paraffin-embedded liver tissue within the normal limits using anti-NIT2 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.
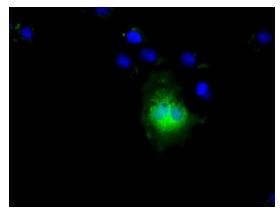

Immunohistochemical staining of paraffin-embedded Carcinoma of liver tissue using anti-NIT2 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.
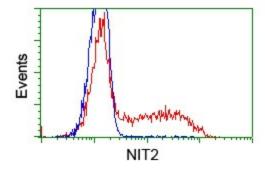
Immunohistochemical staining of paraffin-embedded pancreas tissue within the normal limits using anti-NIT2 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

Anti-NIT2 mouse monoclonal antibody ([TA501109]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY NIT2 ([RC210660]).

HEK293T cells transfected with either pCMV6-ENTRY NIT2 ([RC210660]) (Red) or empty vector control plasmid (Blue) were immunostained with anti-NIT2 mouse monoclonal ([TA501109]), and then analyzed by flow cytometry.