Product Datasheet

NIT2 Antibody

Catalog No: #31280

Package Size: #31280-1 50ul #31280-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	NIT2 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Applications	ELISA WB IHC
Species Reactivity	Hu Ms
Specificity	The antibody detects endogenous level of total NIT2 protein.
Immunogen Type	Peptide
Immunogen Description	Synthetic peptide corresponding to a region derived from 264-276 amino acids of Human itrilase family, member 2
Target Name	NIT2
Other Names	Itrilase family, member 2
Accession No.	Genbank No.: NP_064587
Concentration	0.4mg/ml
Formulation	Supplied at 1.4mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.3, 0.05% sodium azide and 50% glycerol.
Storage	Store at -20°C/1 year

Application Details

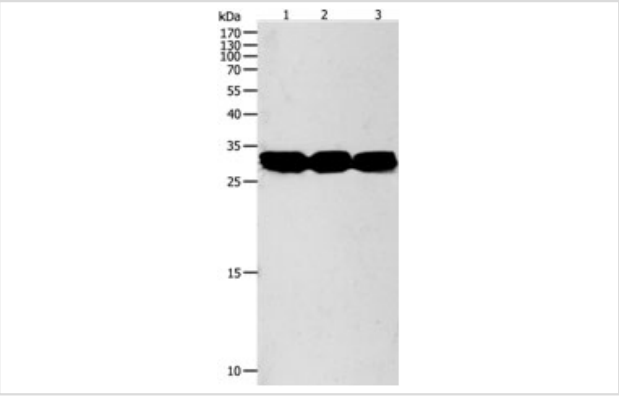
Predicted MW: 31kd

ELISA: 1:2000-1:10000

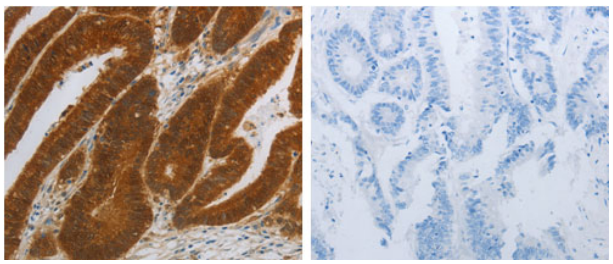
Western blotting: 1:1000-1:5000

Immunohistochemistry: 1:50-1:200

Images



Gel: 10%SDS-PAGE
Lane1: Mouse liver tissue lysate
Lane2: Mouse kidney tissue lysate
Lane3: RAW264.7 cell lysate
Lysates: 40 ug per lane
Primary antibody: 1/950 dilution
Secondary antibody: Goat anti Rabbit IgG - H&L (HRP) at 1/10000 dilution
Exposure time: 90 seconds seconds



The image on the left is immunohistochemistry of paraffin-embedded human colon cancer tissue using 31280 (NIT2 Antibody) at dilution 1/40, on the right is treated with the synthetic peptide.

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.

Published Papers

el at., Downregulation of NIT2 inhibits colon cancer cell proliferation and induces cell cycle arrest through the caspase-3 and PARP pathways.In Int J Mol Med on 2015 May by Bo'an Zheng , Rui Chai et al..PMID:25738796, , (2015)

PMID:25738796

Note: This product is for in vitro research use only and is not intended for use in humans or animals.