Datasheet for ABIN500907

anti-TIGAR antibody (Center)

2 Images

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Overview

Quantity:	0.1 mg
Target:	TIGAR
Binding Specificity:	Center
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TIGAR antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	TIGAR antibody was raised against a 18 amino acid peptide from near the center of human TIGAR.
Isotype:	IgG
Specificity:	This antibody detects TIGAR at center.
Cross-Reactivity (Details):	Species reactivity (tested):Human, mouse, rat
Purification:	Peptide affinity chromatography

Target Details

Target:	TIGAR

Target Details

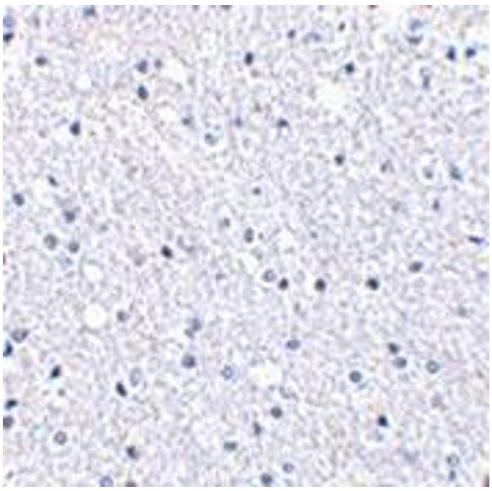
Alternative Name:	TIGAR (TIGAR Products)
Background:	The p53 tumor-suppressor gene integrates numerous signals that control cell life and death, loss of its functions contributes to the development of most cancers. Recent studies have demonstrated the ability of p53 to regulate the expression of several proteins involved in glycolysis and oxidative phosphorylation, such as TIGAR, SCO2, and phosphoglycerate mutase. TIGAR is a recently discovered protein that functions to regulate glycolysis and protect cells against oxidative stress. TIGAR is similar in structure to proteins in the phosphoglycerate mutase family, most notably 6-phosphofructo-2-kinase, suggesting TIGAR may function as a fructose bisphosphatase. Expression of TIGAR in transfected cells correlated with an inhibition of glycolysis and decreased levels of reactive oxygen species and p53-induced apoptosis, indicating that TIGAR may act to modulate the apoptotic response to p53, thereby allowing cells to survive mild or transient stresses.Synonyms: 6-bisphosphatase TIGAR, C12orf5, Probable fructose-2, TP53-induced glycolysis and apoptosis regulator
Gene ID:	57103
NCBI Accession:	NP_065108
Pathways:	Warburg Effect

Application Details

Application Notes:	ELISA. Western blot: 0.5 - 1 µg/mL. Immunohistochemistry on paraffin sections. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

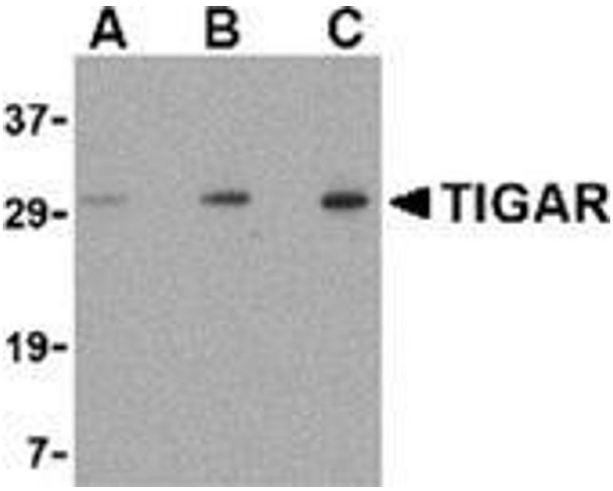
Handling

Buffer:	PBS containing 0.02 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C for longer.



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry of TIGAR in human brain tissue with this product at 2.5 µg/ml.



Western Blotting

Image 2. Western blot analysis of TIGAR in EL4 cell lysate with this product at (A) 0.5, (B) 1 and (C) 2 µg/ml.