

TIGAR Antibody

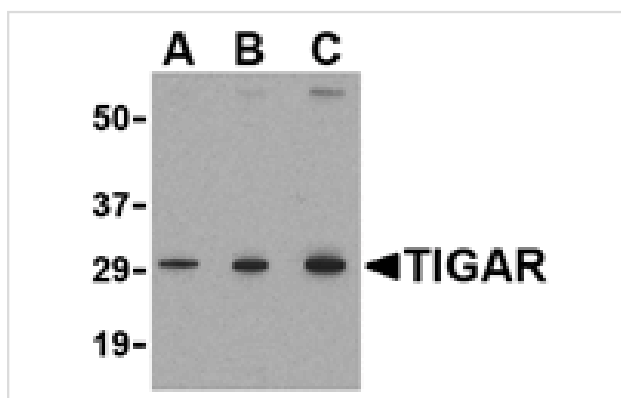
Catalog No: #24500

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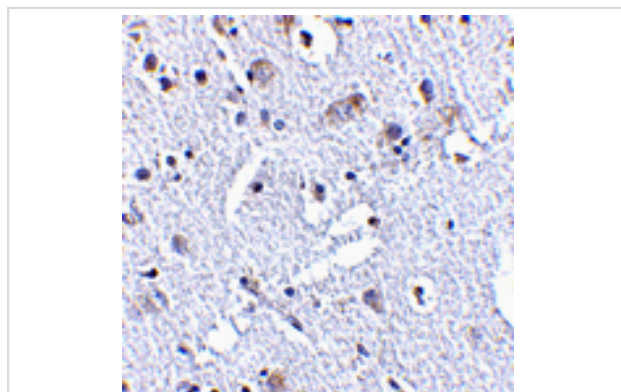
Description

Product Name	TIGAR Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Affinity chromatography purified via peptide column
Applications	ELISA WB IHC
Species Reactivity	Hu Ms
Immunogen Type	Peptide
Immunogen Description	Raised against a 19 amino acid peptide from near the center of human TIGAR.
Target Name	TIGAR
Other Names	Tp53-induced glycolysis and apoptosis regulator
Accession No.	Swiss-Prot:Q9NQ88Gene ID:57103
Uniprot	Q9NQ88
GeneID	57103;
Concentration	1mg/ml
Formulation	Supplied in PBS containing 0.02% sodium azide.
Storage	Can be stored at -20°C, stable for one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Images



Western blot analysis of TIGAR in MCF7 cell lysate with TIGAR antibody at (A) 0.5, (B) 1 and (C) 2 ug/mL.



Immunohistochemistry of TIGAR in human brain tissue with TIGAR antibody at 2.5 ug/mL.

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.

Note: This product is for in vitro research use only