

## Product datasheet for **TA306398**

### TIGAR Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 0.5 - 2 ug/mL, ICC: 2.5 ug/mL, IF: 20 ug/mL
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	TIGAR antibody was raised against a 19 amino acid peptide from near the center of human TIGAR.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	Affinity chromatography purified via peptide column
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	TP53 induced glycolysis regulatory phosphatase
Database Link:	<a href="#">NP_065108</a> <a href="#">Entrez Gene 319801 Mouse</a> <a href="#">Entrez Gene 57103 Human</a> <a href="#">Q9NQ88</a>



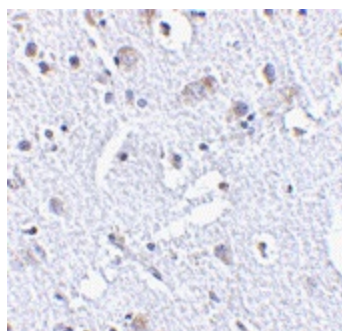
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**Background:**

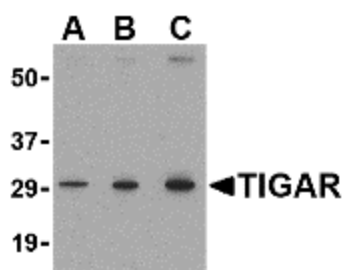
The p53 tumor-suppressor gene integrates numerous signals that control cell life and death; loss of its functions contributes to the development of most cancers. Recent studies have demonstrated the ability of p53 to regulate the expression of several proteins involved in glycolysis and oxidative phosphorylation, 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 biphosphatase. 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:**

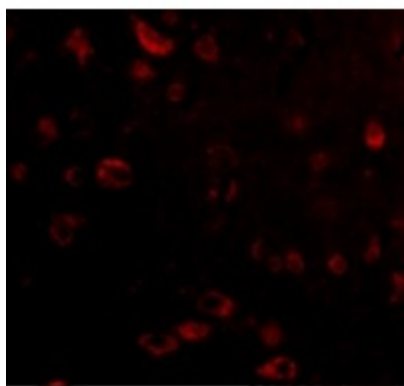
C12orf5; FR2BP

**Product images:**

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



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



Immunofluorescence of TIGAR in Human Brain cells with TIGAR antibody at 20 ug/mL.