

## Polyclonal Antibody to TIGAR (TP53-induced glycolysis and apoptosis regulator).



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## Polyclonal Antibody to TIGAR (TP53-induced glycolysis and apoptosis regulator).

**Catalog No :** IMG-5910A  
**Formulation :** 100 ug in 200 ul PBS containing 0.2% gelatin and 0.05% sodium azide. Sodium azide is highly toxic.  
**Isotype :** Rabbit IgG  
**Purification :** Protein G chromatography  
**Species React :** Chimpanzee, Human, Mouse, Rat  
**Predicted React :** Monkey  
**Host :** Rabbit

**Application**  
Western blot analysis: 1-4 ug/ml  
**Storage**  
Store at 4°C, stable for 6 months. For long term storage, aliquot and store at -20°C.

### Background

TIGAR a 270 AA, p53-inducible protein is known an isomerase belonging to phosphoglycerate mutase family. It is a part of the p53 tumor suppressor pathway that regulates glycolysis and protects against oxidative stress. Report shows that it has sequence similarity to the bisphosphate domain of the glycolytic enzyme that degrades fructose-2, 6-bisphosphate and blocks glycolysis thereby directing the pathway into the pentose phosphate shunt. Over expression of TIGAR in mouse and human cells resulted in inhibition of glycolysis, as well as a decrease in intracellular reactive oxygen species (ROS) and provides some protection from DNA damage-induced apoptosis in a cell type-specific manner.

### Antigen

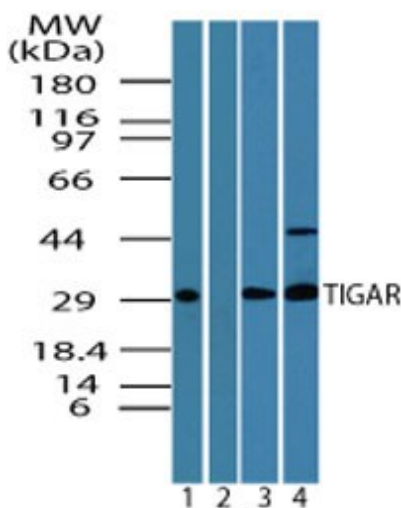
A portion of amino acids 140-190 of human TIGAR was used as the immunogen.

### Application Notes

The amino acid sequence used as immunogen is 100% homologous in human (isoforms CRA\_a and CRA\_b) and chimpanzee, and 93% homologous in monkey.

### Genebank Info (Protein)

NP\_065108



Western blot analysis of human TIGAR in human liver in the 1) absence and 2) presence of immunizing peptide, 3) mouse liver and 4) rat liver lysate using IMG-5910A at 1, 4 and 2 ug/ml, respectively.

### Reference

1. Bensaad, K. et al. *Cell*. 126:107-120 (2006).
2. Jen, KY. et al. *Cancer Res*. 65:7666-7673 (2005).

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