

# Anti-TIGAR [9C10]

**Catalogue number:** 151312

**Sub-type:** Primary antibody

**Images:**

## Contributor

**Inventor:** Karen Vousden

**Institute:** Cancer Research UK, Glasgow: The Beatson Institute

**Images:**

## Tool details

**\*FOR RESEARCH USE ONLY**

**Name:** Anti-TIGAR [9C10]

**Alternate name:**

**Class:** Monoclonal

**Conjugate:** Unconjugated

**Description:** TIGAR (TP53 induced glycolysis and apoptosis regulator) is a novel p53-inducible gene, that shows similarity to the bisphosphatase domain of the bifunctional enzyme 6-phosphofructo-2-kinase/fructose 2,6-bisphosphatase, the main regulator of glycolysis. TIGAR functions to lower fructose-2,6-bisphosphate levels in cells, resulting in an inhibition of glycolysis, and an overall decrease in intracellular reactive oxygen species (ROS) levels, correlating with a decreased sensitivity to apoptosis.

**Purpose:**

**Parental cell:**

**Organism:**

**Tissue:**

**Model:**

**Gender:**

**Isotype:** IgG2b

**Reactivity:** Human

**Selectivity:**

**Host:** Mouse

**Immunogen:** A 15-amino acid peptide corresponding to the exon COOH-terminal region of human TIGAR protein (CMNLQDHLNGLTETR).

**Immunogen UNIPROT ID:**

**Sequence:**

**Growth properties:**

**Production details:**

**Formulation:**

**Recommended controls:**

**Bacterial resistance:**

**Selectable markers:**

**Additional notes:**

## Target details

**Target:** TIGAR

**Target alternate names:**

**Target background:** TIGAR (TP53 induced glycolysis and apoptosis regulator) is a novel p53-inducible gene, that shows similarity to the bisphosphatase domain of the biFn enzyme 6-phosphofructo-2-kinase/fructose 2,6-bisphosphatase, the main regulator of glycolysis. TIGAR functions to lower fructose-2,6-bisphosphate levels in cells, resulting in an inhibition of glycolysis, and an overall decrease in intracellular reactive oxygen species (ROS) levels, correlating with a decreased sensitivity to apoptosis.

**Molecular weight:** 30 kDa

**Ic50:**

## Applications

**Application:** ChIP ; IP ; WB

**Application notes:**

## Handling

**Format:** Liquid

**Concentration:** 0.9-1.1 mg/ml

**Passage number:**

**Growth medium:**

**Temperature:**

**Atmosphere:**

**Volume:**

**Storage medium:**

**Storage buffer:** PBS with 0.02% azide

**Storage conditions:** -15° C to -25° C

**Shipping conditions:** Shipping at 4° C

## Related tools

**Related tools:**

## References

**References:** Furuta et al. 2010. Carcinogenesis. 31(5):766-76. PMID: 19843643. ; miR-124 and miR-203 are epigenetically silenced tumor-suppressive microRNAs in hepatocellular carcinoma. ; Kozaki et al. 2008. Cancer Res. 68(7):2094-105. PMID: 18381414. ; Exploration of tumor-suppressive microRNAs silenced by DNA hypermethylation in oral cancer.

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