

Rabbit anti-Human TIGAR Polyclonal Antibody | anti-TIGAR antibody

TIGAR Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA233108	Rabbit	Human	Immunofluorescence, Immunohistochemistry, ELISA

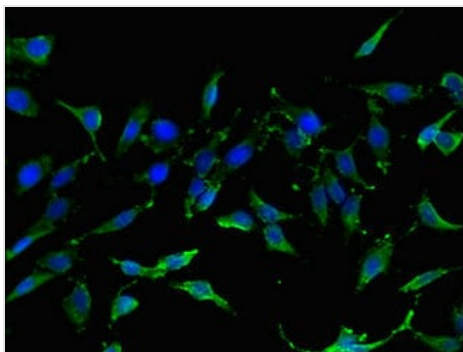
PRODUCT SYNONYMS

TIGAR; Polyclonal Antibody; TIGAR Antibody; Fructose-2, 6-bisphosphatase TIGAR; TP53-induced glycolysis and apoptosis regulator; anti-TIGAR antibody

PRODUCT SPECIFICATIONS

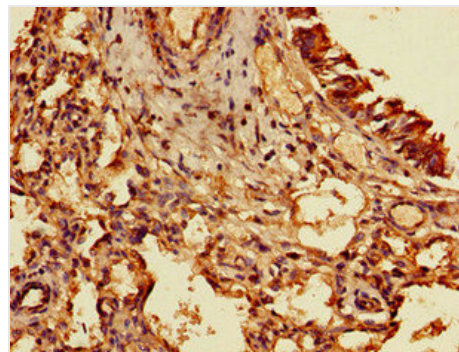
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	>95%, Protein G purified
Form/Format	Liquid
Sequence Length	270
Applicable Applications for anti-TIGAR antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), ELISA
Immunogen	Recombinant Human Fructose-2, 6-bisphosphatase TIGAR protein (24-188AA)
Preservative	0.03% Proclin 300
Constituents	50% Glycerol, 0.01M PBS, PH 7.4
Conjugation	Non-conjugated
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-67273 / sc-67274 / sc-68238 / sc-68239
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.

IMAGES



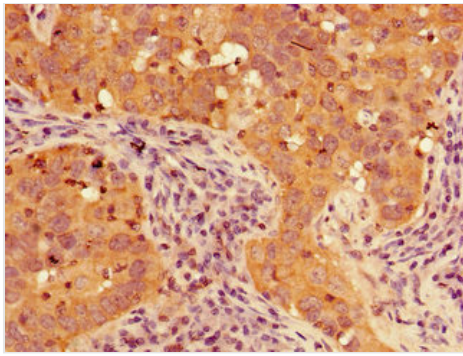
IHC (Immunohistochemistry)

Immunofluorescent analysis of HeLa cells using AAA233108 at a dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)



IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded human lung cancer using AAA233108 at dilution of 1:100



IHC (Immunohistochemistry)
Immunohistochemistry of paraffin-embedded human pancreatic cancer using AAA233108 at dilution of 1:100

ADDITIONAL INFORMATION

Related Product Information for anti-TIGAR antibody	Fructose-bisphosphatase hydrolyzing fructose-2, 6-bisphosphate as well as fructose-1, 6-bisphosphate (PubMed: 19015259). Acts as a negative regulator of glycolysis by lowering intracellular levels of fructose-2, 6-bisphosphate in a p53/TP53-dependent manner, resulting in the pentose phosphate pathway (PPP) activation and NADPH production (PubMed: 16839880, PubMed: 22887998). Contributes to the generation of reduced glutathione to cause a decrease in intracellular reactive oxygen species (ROS) content, correlating with its ability to protect cells from oxidative or metabolic stress-induced cell death (PubMed: 16839880, PubMed: 19713938, PubMed: 23726973, PubMed: 22887998, PubMed: 23817040). Plays a role in promoting protection against cell death during hypoxia by decreasing mitochondria ROS levels in a HK2-dependent manner through a mechanism that is independent of its fructose-bisphosphatase activity (PubMed: 23185017). In response to cardiac damage stress, mediates p53-induced inhibition of myocyte mitophagy through ROS levels reduction and the subsequent inactivation of BNIP3. Reduced mitophagy results in an enhanced apoptotic myocyte cell death, and exacerbates cardiac damage (By similarity). Plays a role in adult intestinal regeneration; contributes to the growth, proliferation and survival of intestinal crypts following tissue ablation (PubMed: 23726973). Plays a neuroprotective role against ischemic brain damage by enhancing PPP flux and preserving mitochondria functions (By similarity). Protects glioma cells from hypoxia- and ROS-induced cell death by inhibiting glycolysis and activating mitochondrial energy metabolism and oxygen consumption in a TKTL1-dependent and p53/TP53-independent manner (PubMed: 22887998). Plays a role in cancer cell survival by promoting DNA repair through activating PPP flux in a CDK5-ATM-dependent signaling pathway during hypoxia and/or genome stress-induced DNA damage responses (PubMed: 25928429). Involved in intestinal tumor progression (PubMed: 23726973).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	9966849
NCBI GeneID	57103
NCBI Accession #	NP_065108.1
NCBI GenBank Nucleotide #	NM_020375.2
UniProt Accession #	Q9NQ88; B2R840
Molecular Weight	30,063 Da
NCBI Official Full Name	fructose-2,6-bisphosphatase TIGAR
NCBI Official Synonym Full Names	TP53 induced glycolysis regulatory phosphatase
NCBI Official Symbol	TIGAR
NCBI Official Synonym Symbols	FR2BP; C12orf5
NCBI Protein Information	fructose-2,6-bisphosphatase TIGAR
UniProt Protein Name	Fructose-2,6-bisphosphatase TIGAR
UniProt Gene Name	TIGAR

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/tigar-antibody-immunofluorescence-immunohistochemistry-elisa/233108>