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Immunotag™ TIGAR Polyclonal Antibody

Antibody Specification

Catalog No.	ITN2999
Product Description	Immunotag™ TIGAR Polyclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	TIGAR
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,ELISA
Recommended Dilution	WB 1:500-2000 ELISA 1:5000-20000
Concentration	1 mg/ml
Reactive Species	Human
Host Species	Rabbit
Immunogen	Synthesized peptide derived from part region of human protein
Specificity	TIGAR Polyclonal Antibody detects endogenous levels of protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Form	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Gene Name	TIGAR C12orf5
Accession No.	Q9NQ88 Q8BZA9

Antibody Specification

Description	TP53 induced glycolysis regulatory phosphatase(TIGAR) Homo sapiens This gene is regulated as part of the p53 tumor suppressor pathway and encodes a protein with sequence similarity to the bisphosphate domain of the glycolytic enzyme that degrades fructose-2,6-bisphosphate. The protein functions by blocking glycolysis and directing the pathway into the pentose phosphate shunt. Expression of this protein also protects cells from DNA damaging reactive oxygen species and provides some protection from DNA damage-induced apoptosis. The 12p13.32 region that includes this gene is paralogous to the 11q13.3 region. [provided by RefSeq, Jul 2008],
Protein Expression	B-cell,
Subcellular Localization	intracellular,nucleus,cytoplasm,mitochondrial outer membrane,cytosol,
Protein Function	catalytic activity:Beta-D-fructose 2,6-bisphosphate + H(2)O = D-fructose 6-phosphate + phosphate.,caution:Not expected to have any kinase activity.,function:Probable fructose-biphosphatase. Lowers cellular levels of fructose 2,6-bisphosphate. Protects cells against reactive oxygen species and against apoptosis induced by tp53.,induction:Rapidly up-regulated by TP53.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Belongs to the phosphoglycerate mutase family.,
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.