abcam

Product datasheet

Anti-Triosephosphate isomerase antibody ab96696

★★★★★ 1 Abreviews 8 References 2 Images

Overview

Product name	Anti-Triosephosphate isomerase antibody
Description	Rabbit polyclonal to Triosephosphate isomerase
Host species	Rabbit
Tested applications	**Suitable for:** WB, IHC-P
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide, corresponding to a region within amino acids 187-249 of Human Triosephosphate isomerase (NP_000356).
Positive control	WB: 293T, HeLaS3, HepG2 and Raji cell lysates; A431, H1299, whole cell lysates. IHC-P: SNU16 tissue
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.00 Preservative: 0.025% Proclin 300 Constituents: 78% PBS, 1% BSA, 20% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab96696 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

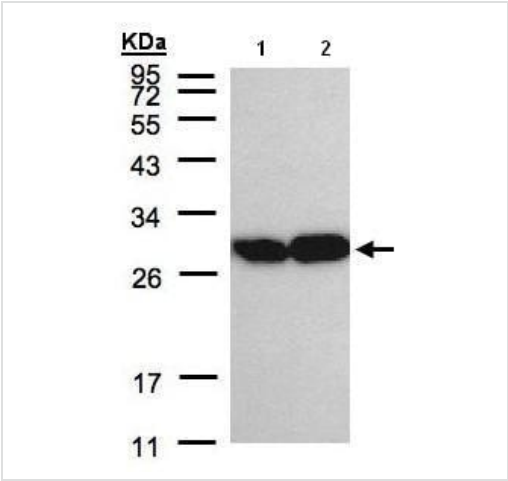
Application	Abreviews	Notes
WB	★★★★★ (1)	1/500 - 1/3000. Predicted molecular weight: 27 kDa.
IHC-P		1/100.

Target

Relevance Triosephosphate isomerase (TIM) catalyses the reversible interconversion of G3P and DHAP. Only G3P can be used in glycolysis, therefore TIM is essential for energy production, allowing two molecules of G3P to be produced for every glucose molecule, thereby doubling the energy yield. Defects in TPI1 are the cause of triosephosphate isomerase deficiency (TPI deficiency) [MIM:190450]. TPI deficiency is an autosomal recessive disorder. It is the most severe clinical disorder of glycolysis. It is associated with neonatal jaundice, chronic hemolytic anemia, progressive neuromuscular dysfunction, cardiomyopathy and increased susceptibility to infection.

Cellular localization Cytoplasmic and Nuclear; extracellular vesicle exosome; extracellular space.

Images



Western blot - Anti-Triosephosphate isomerase antibody (ab96696)

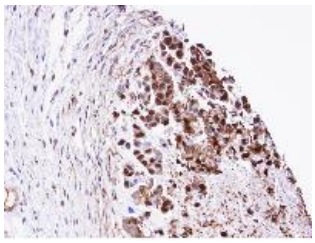
All lanes : Anti-Triosephosphate isomerase antibody (ab96696) at 1/2000 dilution

Lane 1 : A431 whole cell lysate
Lane 2 : H1299 whole cell lysate

Lysates/proteins at 30 µg per lane.

Predicted band size: 27 kDa

12% SDS PAGE



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Triosephosphate isomerase antibody (ab96696)

ab96696, at a 1/100 dilution, staining Triosephosphate isomerase in paraffin embedded SNU16 (human) by Immunohistochemical analysis.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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