

Product datasheet

Anti-Triosephosphate isomerase antibody [EPR12149(B)] ab170894

Recombinant RabMAb

[2 References](#) [4 Images](#)

Overview

Product name	Anti-Triosephosphate isomerase antibody [EPR12149(B)]
Description	Rabbit monoclonal [EPR12149(B)] to Triosephosphate isomerase
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), WB Unsuitable for: ICC/IF, IHC-P or IP
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	Fetal liver, HeLa and 293T lysates; 293T cells.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents .

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
Purity	Tissue culture supernatant
Clonality	Monoclonal

Clone number EPR12149(B)
Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab170894 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
Flow Cyt (Intra)		1/10 - 1/100. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB		1/1000 - 1/5000. Predicted molecular weight: 31 kDa.

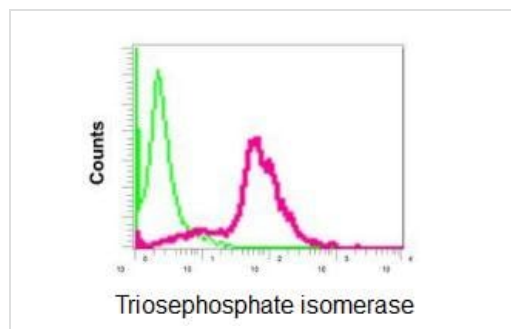
Application notes Is unsuitable for ICC/IF, IHC-P or IP.

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.

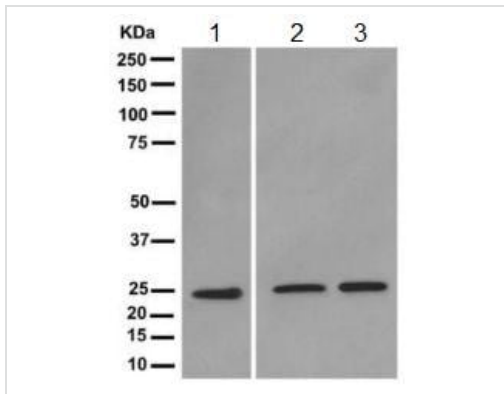
Cellular localization Cytoplasmic and Nuclear; extracellular vesicle exosome; extracellular space.

Images



Intracellular flow cytometric analysis of permeabilized 293T cells labeling Triosephosphate isomerase with ab170894 at 1/10 dilution (red) compared with a rabbit IgG negative control (green).

Flow Cytometry (Intracellular) - Anti-Triosephosphate isomerase antibody [EPR12149(B)] (ab170894)



Western blot - Anti-Triosephosphate isomerase antibody [EPR12149(B)] (ab170894)

All lanes : Anti-Triosephosphate isomerase antibody [EPR12149(B)] (ab170894) at 1/1000 dilution

Lane 1 : Fetal liver lysate

Lane 2 : HeLa cell lysate

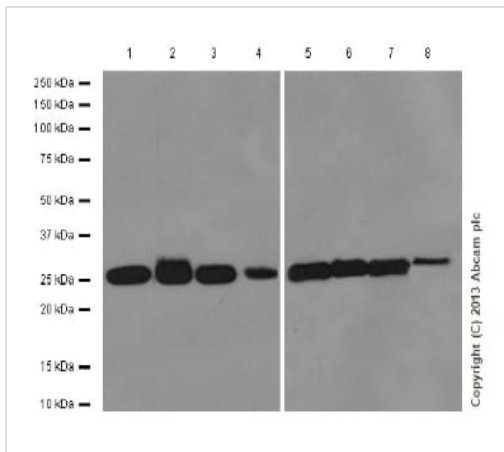
Lane 3 : 293T cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat anti-rabbit HRP at 1/2000 dilution

Predicted band size: 31 kDa



Western blot - Anti-Triosephosphate isomerase antibody [EPR12149(B)] (ab170894)

All lanes : Anti-Triosephosphate isomerase antibody [EPR12149(B)] (ab170894) at 1/1000 dilution

Lane 1 : Mouse brain tissue lysate

Lane 2 : Mouse heart tissue lysate

Lane 3 : Mouse kidney tissue lysate

Lane 4 : Mouse spleen tissue lysate

Lane 5 : Rat brain tissue lysate

Lane 6 : Rat heart tissue lysate

Lane 7 : Rat kidney tissue lysate

Lane 8 : Rat spleen tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 31 kDa

Observed band size: 27 kDa

Exposure time: 180 seconds

Blocking and diluting buffer and concentration: 5% NFD/MTBST

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-Triosephosphate isomerase antibody
[EPR12149(B)] (ab170894)

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

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