

TALDO1 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP6679c**Specification**

TALDO1 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [P37837](#)**TALDO1 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 6888**Other Names**

Transaldolase, TALDO1, TAL, TALDO, TALDOR

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP6679c](/products/AP6679c) was selected from the Center region of human TALDO1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

TALDO1 Antibody (Center) Blocking Peptide - Protein Information**Name** TALDO1 ([HGNC:11559](#))**Synonyms** TAL, TALDO, TALDOR**Function**

Catalyzes the rate-limiting step of the non-oxidative phase in the pentose phosphate pathway. Catalyzes the reversible conversion of sedheptulose-7-phosphate and D-glyceraldehyde 3-phosphate into erythrose-4-phosphate and beta-D-fructose 6-phosphate (PubMed: [8955144](http://www.uniprot.org/citations/8955144), PubMed: [18687684](http://www.uniprot.org/citations/18687684)). Not only acts as a pentose phosphate pathway enzyme, but also affects other metabolite pathways by altering its subcellular localization between the nucleus and the cytoplasm (By similarity).

Cellular Location

[Isoform 1]: Nucleus {ECO:0000250|UniProtKB:Q93092}. Cytoplasm

{ECO:0000250|UniProtKB:Q93092}. Note=Shuttles between the nucleus and the cytoplasm. Actively transported into the nucleus in an importin alpha/beta-dependent manner. Exported into the cytoplasm by CRM1 {ECO:0000250|UniProtKB:Q93092}

TALDO1 Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

TALDO1 Antibody (Center) Blocking Peptide - Images

TALDO1 Antibody (Center) Blocking Peptide - Background

Transaldolase 1 is a key enzyme of the nonoxidative pentose phosphate pathway providing ribose-5-phosphate for nucleic acid synthesis and NADPH for lipid biosynthesis. This pathway can also maintain glutathione at a reduced state and thus protect sulfhydryl groups and cellular integrity from oxygen radicals.

TALDO1 Antibody (Center) Blocking Peptide - References

Schneider,S., J. Biol. Chem. 283 (44), 30064-30072 (2008)Qian,Y., Biochem. J. 415 (1), 123-134 (2008)Wamelink,M.M., J. Inherit. Metab. Dis. 30 (5), 735-742 (2007)