

Transaldolase 1 Rabbit pAb

Catalog # AP99032

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	P37837
Other Accession	P37837
Host	Rabbit
Clonality	Polyclonal
Calculated MW	37540
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Transaldolase 1
Epitope Specificity	145-250/337
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
DISEASE	Transaldolase deficiency
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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. The functional gene of transaldolase 1 is located on chromosome 11 and a pseudogene is identified on chromosome 1 but there are conflicting map locations. The second and third exon of this gene were developed by insertion of a retrotransposable element. This gene is thought to be involved in multiple sclerosis. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	6888
Other Names	TALDO_HUMAN; TALDO1; 2.2.1.2; TAL; TALDO; TALDOR; TAL-H; TALH; transaldolase 1
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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 sedoheptulose-7-phosphate and D-glyceraldehyde 3-phosphate into erythrose-4-phosphate and beta-D-fructose 6-phosphate (PubMed: 18687684 , PubMed: 8955144). 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}

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.