



# TALDO1, Transaldolase 1

## polyclonal antibody

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### Box 1 | Basic Info

Cat. No.	ABP-PAB-11692
Animal ID	RB1077/RB1078
Host	Rabbit
Reactivity	Human, Mouse, Rat
Format	Purified
Accession number	NM_006755
Amount	100 µg

Alternative Name(s): Taldo1, TAL, TAL-H, TALDOR

Transaldolase 1 is a key enzyme of the non-oxidative 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 exons of this gene were developed by insertion of a retrotransposable element. This gene is thought to be involved in multiple sclerosis.

#### Buffers

Purified rabbit polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column and eluted out with both high and low pH buffers and neutralized immediately after elution then followed by dialysis against PBS.

#### Immunogen

KLH conjugated synthetic peptide comprised of amino acids 49 - 63 [KNAIDKLFVLFGAEI] of the human transaldolase 1 (TALDO1) protein.

#### Application:

Tested by peptide-specific ELISA (1:1,000).

#### Storage:

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

#### References:

1. Perl A, Colombo E, Samoilova E, Butler MC, Banki K: Human transaldolase-associated repetitive elements are transcribed by RNA polymerase III. *J. Biol. Chem.* 275 (10): 7261-7272 (2000).
2. Kusuda J, Hirai M, Toyoda A, Tanuma R, Nomura-Kitabayashi A, Hashimoto K: Cloning and chromosomal localization of a paralog and a mouse homolog of the human transaldolase gene. *Gene* 209(1-2): 13-21 (1998).
3. Banki K, Eddy RL, Shows TB, Halladay DL, Bullrich F, Croce CM, Jurecic V, Baldini A, Perl A: The human transaldolase gene (TALDO1) is located on chromosome 11 at p15.4-p15.5. *Genomics* 45(1): 233-238 (1997).