

## TALDO rabbit pAb

<b>Catalog No :</b>	YT6489
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB
<b>Target :</b>	TALDO
<b>Fields :</b>	>>Pentose phosphate pathway;>>Metabolic pathways;>>Carbon metabolism;>>Biosynthesis of amino acids
<b>Gene Name :</b>	TALDO1 TAL TALDO TALDOR
<b>Protein Name :</b>	TALDO
<b>Human Gene Id :</b>	6888
<b>Human Swiss Prot No :</b>	P37837
<b>Mouse Gene Id :</b>	21351
<b>Mouse Swiss Prot No :</b>	Q93092
<b>Rat Gene Id :</b>	83688
<b>Rat Swiss Prot No :</b>	Q9EQS0
<b>Immunogen :</b>	Synthesized peptide derived from human TALDO AA range: 21-71
<b>Specificity :</b>	This antibody detects endogenous levels of TALDO at Human/Mouse/Rat
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500-2000

**Purification :** The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

**Concentration :** 1 mg/ml

**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

**Molecularweight :** 37kD

**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. 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],

**Function :** catalytic activity:Sedoheptulose 7-phosphate + D-glyceraldehyde 3-phosphate = D-erythrose 4-phosphate + D-fructose 6-phosphate.,disease:Defects in TALDO1 are the cause of transaldolase 1 deficiency (TALDO1 deficiency) [MIM:606003]. It results in telangiectases of the skin, hepatosplenomegaly, and enlarged clitoris.,function:Transaldolase is important for the balance of metabolites in the pentose-phosphate pathway.,pathway:Carbohydrate degradation; pentose phosphate pathway; D-glyceraldehyde 3-phosphate and beta-D-fructose 6-phosphate from D-ribose 5-phosphate and D-xylulose 5-phosphate (non-oxidative stage): step 2/3.,similarity:Belongs to the transaldolase family.,similarity:Belongs to the transaldolase family. Type 1 subfamily.,

**Subcellular Location :** Cytoplasm .

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