

Product Name: KD-Validated Transaldolase 1 Mouse Monoclonal Antibody**Catalog #: KVA01923**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG2b
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:400-1:2,000
Molecular Weight	Calculated MW: 37.5kDa

Antigen Information

Gene Name	TALDO1
Alternative Names	TALDO1; Transaldolase 1; Transaldolase; EC 2.2.1.2; TALDOR; TAL; Testicular Secretory Protein Li 56; Dihydroxyacetone Transferase; Glycerone Transferase; TAL-H; TALDO; TALH
Gene ID	6888.0
SwissProt ID	P37837
Immunogen	Recombinant protein of human TALDO1

Background

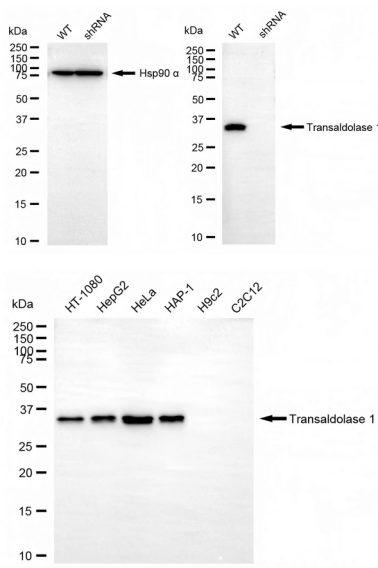
Transaldolase 1 is a key enzyme of the nonoxidative pentose phosphate pathway providing ribose-5-phosphate for nucleic acid synthesis and NADPH for lipid biosynthesis. This pathway can also maintain glutathione at a reduced state and thus protect sulfhydryl groups and cellular integrity from oxygen radicals.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

Research Area

Cancer, Metabolism

Image Data



Western blotting analysis using transaldolase 1 antibody (KVA01923). Transaldolase 1 expression in wild-type (WT) and transaldolase 1 (TALDO1) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with transaldolase 1 antibody (KVA01923, 1:4,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.

Western blotting analysis using transaldolase 1 antibody (KVA01923). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with transaldolase 1 antibody (KVA01923, 1:2,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.