

## MTDC rabbit pAb

<b>Catalog No :</b>	YT6697
<b>Reactivity :</b>	Human;Mouse
<b>Applications :</b>	WB;IHC
<b>Target :</b>	MTDC
<b>Fields :</b>	>>One carbon pool by folate;>>Metabolic pathways;>>Biosynthesis of cofactors
<b>Gene Name :</b>	MTHFD2 NMDMC
<b>Protein Name :</b>	MTDC
<b>Human Gene Id :</b>	10797
<b>Human Swiss Prot No :</b>	P13995
<b>Mouse Gene Id :</b>	17768
<b>Mouse Swiss Prot No :</b>	P18155
<b>Immunogen :</b>	Synthesized peptide derived from human MTDC AA range: 121-171
<b>Specificity :</b>	This antibody detects endogenous levels of MTDC at Human/Mouse
<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;IHC 1:50-300
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml

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

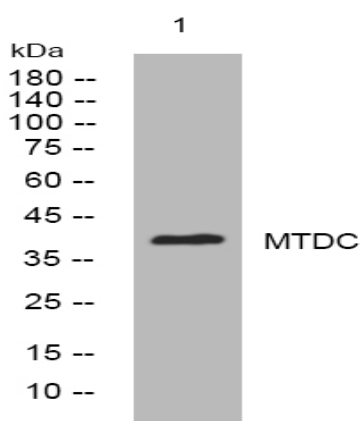
**Molecularweight :** 39kD

**Background :** This gene encodes a nuclear-encoded mitochondrial bifunctional enzyme with methylenetetrahydrofolate dehydrogenase and methenyltetrahydrofolate cyclohydrolase activities. The enzyme functions as a homodimer and is unique in its absolute requirement for magnesium and inorganic phosphate. Formation of the enzyme-magnesium complex allows binding of NAD. Alternative splicing results in two different transcripts, one protein-coding and the other not protein-coding. This gene has a pseudogene on chromosome 7. [provided by RefSeq, Mar 2009],

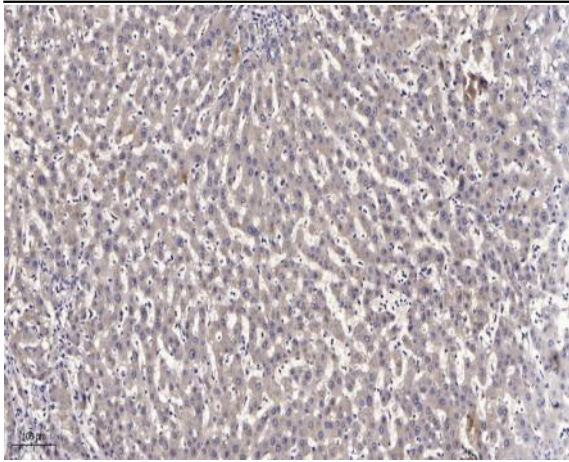
**Function :** catalytic activity:5,10-methenyltetrahydrofolate + H(2)O = 10-formyltetrahydrofolate.,catalytic activity:5,10-methylenetetrahydrofolate + NAD(+) = 5,10-methenyltetrahydrofolate + NADH.,cofactor:Magnesium.,developmental stage:Expressed only in developing normal tissues.,miscellaneous:This NAD-dependent bifunctional enzyme has very different kinetic properties than the larger NADP-dependent trifunctional enzyme and is unique in that it requires formation of an enzyme-magnesium complex to allow binding of NAD.,similarity:Belongs to the tetrahydrofolate dehydrogenase/cyclohydrolase family.,subunit:Homodimer.,

**Subcellular Location :** Mitochondrion.

## Products Images



Western blot analysis of lysates from 293T cells, primary antibody was diluted at 1:1000, 4° over night



Immunohistochemical analysis of paraffin-embedded human liver cancer. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).