

## Product datasheet for TA812635

### MTHFR Mouse Monoclonal Antibody [Clone ID: OTI2H3]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI2H3
Applications:	WB
Recommended Dilution:	WB 1:250~500
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 1-230 of human MTHFR (NP_005948) produced in E.coli.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	74.4 kDa
Gene Name:	methylenetetrahydrofolate reductase (NAD(P)H)
Database Link:	<a href="#">NP_005948</a> <a href="#">Entrez Gene 17769 Mouse</a> <a href="#">Entrez Gene 362657 Rat</a> <a href="#">Entrez Gene 4524 Human</a> <a href="#">P42898</a>
Background:	The protein encoded by this gene catalyzes the conversion of 5,10-methylenetetrahydrofolate to 5-methyltetrahydrofolate, a co-substrate for homocysteine remethylation to methionine. Genetic variation in this gene influences susceptibility to occlusive vascular disease, neural tube defects, colon cancer and acute leukemia, and mutations in this gene are associated with methylenetetrahydrofolate reductase deficiency. [provided by RefSeq, Oct 2009]

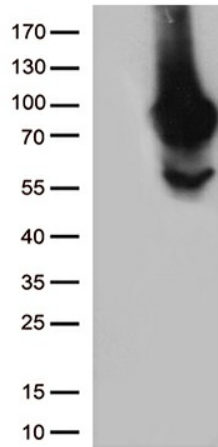


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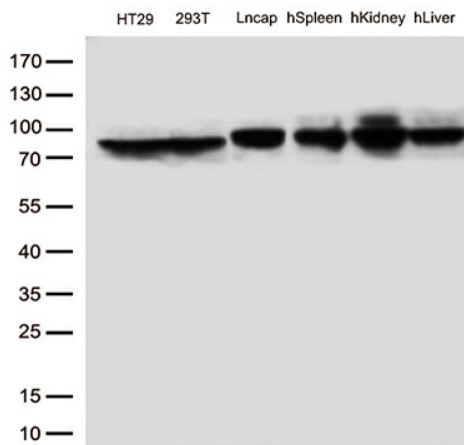
**Protein Families:** Druggable Genome

**Protein Pathways:** Metabolic pathways, Methane metabolism, One carbon pool by folate

**Product images:**



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY MTHFR (Cat# [RC208588], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-MTHFR (Cat# TA812635)(1:500). Positive lysates [LY416960] (100ug) and [LC416960] (20ug) can be purchased separately from OriGene.



Western blot analysis of extracts (35ug) from 3 cell lines and 3 tissue lysates by using anti-MTHFR monoclonal antibody (1:250).