ARG44874
anti-MTHFD2 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody recognizes MTHFD2
Tested Reactivity	Hu
Tested Application	IHC-P, IP, WB
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Target Name	MTHFD2
Species	Human
Epitope	TIMKPASISE EELLNLINKL NNDDNVDGLL VQLPLPEHID ERRICNAVSP DKDVDGFHVI NVGRMCLDQY SMLPATPWGV WEIIKRTGIP TLGKNVVVAG RSKNVGMPIA MLLHTDGAHE RPGGDATVTI SHRYTPKEQL KKHTILADIV ISAAGIPNLI TADMIKEGAA VIDVGINRVH DPVTAKPKLV GDVDFEGVRQ
Conjugation	Un-conjugated
Alternate Names	MTHFD2; Methylenetetrahydrofolate Dehydrogenase (NADP+ Dependent) 2, Methenyltetrahydrofolate Cyclohydrolase; Bifunctional Methylenetetrahydrofolate Dehydrogenase/Cyclohydrolase, Mitochondrial; NMDMC; NAD-Dependent Methylene Tetrahydrofolate Dehydrogenase Cyclohydrolase

Application Instructions

Application table

Application	Dilution
IHC-P	1:200
IP	1:100
WB	1:1000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

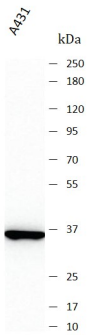
Properties

Form	Liquid
Purification	Protein A purification
Buffer	PBS with 0.09% sodium azide
Preservative	0.09% sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

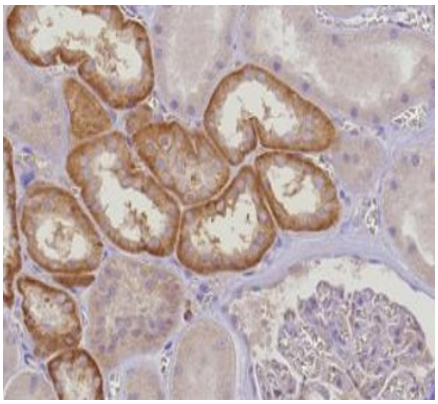
Gene Symbol	MTHFD2
Gene Full Name	Methylenetetrahydrofolate Dehydrogenase (NADP+ Dependent) 2, Methenyltetrahydrofolate Cyclohydrolase
Background	This gene encodes a nuclear-encoded mitochondrial bifunctional enzyme with methylenetetrahydrofolate dehydrogenase and methenyltetrahydrofolate cyclohydrolase 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	Although its dehydrogenase activity is NAD-specific, it can also utilize NADP at a reduced efficiency. [UniProt]
PTM	Acetylation, Isopeptide bond, Ubl conjugation. [UniProt]
Cellular Localization	Mitochondrion. [UniProt]

Images



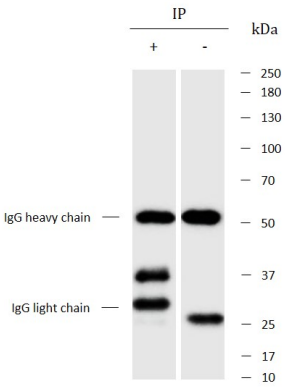
ARG44874 anti-MTHFD2 antibody WB image

Western blot: A-431 stained with ARG44874 anti-MTHFD2 antibody at 1 µg/mL dilution.



ARG44874 anti-MTHFD2 antibody IHC-P image

Immunohistochemistry: Human kidney stained with ARG44874 anti-MTHFD2 antibody at 5 µg/mL dilution.



ARG44874 anti-MTHFD2 antibody IP image

Immunoprecipitation: A-431 lysate immunoprecipitated with 2.5 µg of ARG44874 anti-MTHFD2 antibody.