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# MTCH2 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5492a

## Product Information

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|---|---|
| **Application** | WB, IHC-P, E |
| **Primary Accession** | Q9Y6C9 |
| **Other Accession** | NP_055157.1 |
| **Reactivity** | Human, Mouse |
| **Predicted** | Bovine |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB26956 |
| **Calculated MW** | 33331 |
| **Antigen Region** | 75-103 |

## Additional Information

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| **Gene ID** | 23788 |
| **Other Names** | Mitochondrial carrier homolog 2, Met-induced mitochondrial protein, MTCH2, MIMP |
| **Target/Specificity** | This MTCH2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 75-103 amino acids from the N-terminal region of human MTCH2. |
| **Dilution** | WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| **Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | MTCH2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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|---|---|
| **Name** | MTCH2 {ECO:0000303\|PubMed:36264797, ECO:0000312\|HGNC:HGNC:17587} |
| **Function** | Protein insertase that mediates insertion of transmembrane proteins into |

| | |
|---|---|
| | the mitochondrial outer membrane (PubMed:36264797). Catalyzes insertion of proteins with alpha-helical transmembrane regions, such as signal-anchored, tail-anchored and multi-pass membrane proteins (PubMed:36264797). Does not mediate insertion of beta-barrel transmembrane proteins (PubMed:36264797). Also acts as a receptor for the truncated form of pro-apoptotic BH3-interacting domain death agonist (p15 BID) and has therefore a critical function in apoptosis (By similarity). Regulates the quiescence/cycling of hematopoietic stem cells (HSCs) (By similarity). Acts as a regulator of mitochondrial fusion, essential for the naive-to-primed interconversion of embryonic stem cells (ESCs) (By similarity). Acts as a regulator of lipid homeostasis and has a regulatory role in adipocyte differentiation and biology (By similarity). |
| **Cellular Location** | Mitochondrion outer membrane; Multi-pass membrane protein |

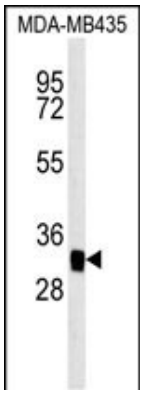
## Background

The substrate transported is not yet known. It induces mitochondrial depolarization.

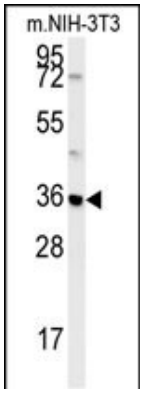
## References

Ng, M.C., et al. J. Clin. Endocrinol. Metab. (2010)
He, M., et al. Arterioscler. Thromb. Vasc. Biol. 30(2):327-332(2010)
Li, S., et al. Am. J. Clin. Nutr. 91(1):184-190(2010)

## Images

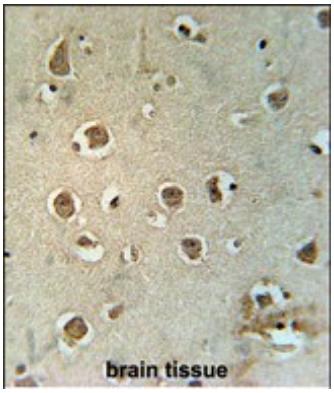



MTCH2 Antibody (N-term) (Cat.#AP5492a) western blot analysis in MDA-MB435 cell line lysates (35ug/lane).This demonstrates the MTCH2 antibody detected the MTCH2 protein (arrow).




MTCH2 Antibody (N-term) (Cat.#AP5492a) western blot analysis in mouse NIH-3T3 cell line lysates (35ug/lane).This demonstrates the MTCH2 antibody detected the MTCH2 protein (arrow).

MTCH2 Antibody (N-term) (Cat. #AP5492a) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and




DAB staining. This data demonstrates the use of the MTCH2 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

## Citations

- Rapid degradation of mutant SLC25A46 by the ubiquitin-proteasome system results in MFN1/2 mediated hyperfusion of mitochondria.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.