

**MTCH2 Antibody**  
**Catalog # ASC10861****Specification****MTCH2 Antibody - Product Information**

Application	WB, IHC, IF
Primary Accession	<a href="#">Q791V5</a>
Other Accession	<a href="#">NP_055157</a> , <a href="#">5815347</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Application Notes	MTCH2 antibody can be used for detection of MTCH2 by Western blot at 1 µg/mL. Antibody can also be used for immunohistochemistry starting at 5 µg/mL. For immunofluorescence start at 20 µg/mL.

**MTCH2 Antibody - Additional Information**

Gene ID	56428
Target/Specificity	
Mtch2;	

**Reconstitution & Storage**

MTCH2 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

**Precautions**

MTCH2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**MTCH2 Antibody - Protein Information**

**Name** Mtch2 {ECO:0000312|MGI:MGI:1929260}

**Function**

Protein insertase that mediates insertion of transmembrane proteins into the mitochondrial outer membrane. Catalyzes insertion of proteins with alpha-helical transmembrane regions, such as signal- anchored, tail-anchored and multi-pass membrane proteins. Does not mediate insertion of beta-barrel transmembrane proteins (By similarity). 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 (PubMed:<a href="http://www.uniprot.org/citations/20436477" target="\_blank">20436477</a>, PubMed:<a href="http://www.uniprot.org/citations/26219591" target="\_blank">26219591</a>, PubMed:<a href="http://www.uniprot.org/citations/26876167" target="\_blank">26876167</a>, PubMed:<a href="http://www.uniprot.org/citations/30510213" target="\_blank">30510213</a>). Regulates the quiescence/cycling of hematopoietic stem cells (HSCs) (PubMed:<a href="http://www.uniprot.org/citations/20436477" target="\_blank">20436477</a>)

target="\_blank">20436477</a>, PubMed:<a href="http://www.uniprot.org/citations/26219591" target="\_blank">26219591</a>, PubMed:<a href="http://www.uniprot.org/citations/26876167" target="\_blank">26876167</a>). Acts as a regulator of mitochondrial fusion, essential for the naive-to-primed interconversion of embryonic stem cells (ESCs) (PubMed:<a href="http://www.uniprot.org/citations/30510213" target="\_blank">30510213</a>). Acts as a regulator of lipid homeostasis and has a regulatory role in adipocyte differentiation and biology (PubMed:<a href="http://www.uniprot.org/citations/26876167" target="\_blank">26876167</a>, PubMed:<a href="http://www.uniprot.org/citations/28127879" target="\_blank">28127879</a>).

#### Cellular Location

Mitochondrion outer membrane; Multi-pass membrane protein

#### Tissue Location

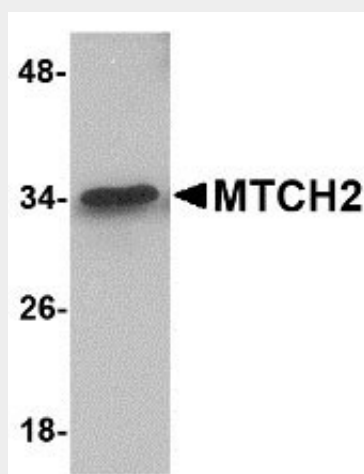
Expressed in a wide variety of tissues. Predominant expressed in liver, kidney, heart, skeletal muscle and testis

### MTCH2 Antibody - Protocols

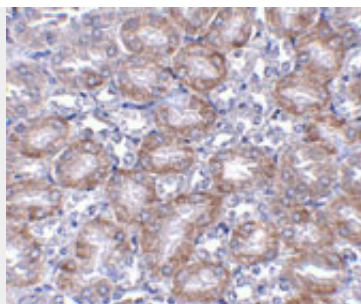
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

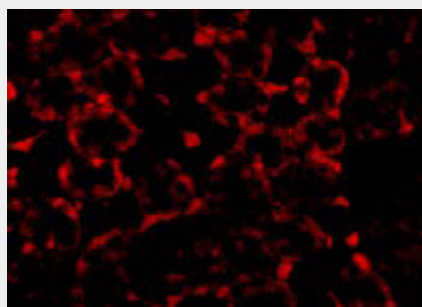
### MTCH2 Antibody - Images



Western blot analysis of MTCH2 in 293 cell lysate with MTCH2 antibody at 1 µg/mL.



Immunohistochemistry of MTCH2 in mouse kidney tissue with MTCH2 antibody at 5 µg/mL.



Immunofluorescence of MTCH2 in Mouse Kidney cells with MTCH2 antibody at 20 µg/mL.

#### **MTCH2 Antibody - Background**

MTCH2 Antibody: Apoptosis plays a major role in normal organism development, tissue homeostasis, and removal of damaged cells. Disruption of this process has been implicated in a variety of diseases such as cancer. The Bcl-2 family of proteins is comprised of critical regulators of apoptosis that can be divided into two classes: those that inhibit apoptosis and those that promote cell death. MTCH2 is a member of the mitochondrial carrier protein family that catalyze the exchange of substrates across the inner mitochondrial membrane and is targeted by Bid, a pro-apoptotic Bcl-2 family member, in response to apoptotic signals, suggesting that MTCH2 may play a key role in the mitochondrial apoptosis pathway.

#### **MTCH2 Antibody - References**

Lockshin RA, Osborne B, and Zakeri Z. Cell death in the third millennium. *Cell Death Differ.*2000; 7:2-7.  
Cory S, Huang DCS, and Adams JM. The Bcl-2 family: roles in cell survival and oncogenesis. *Oncogene*2003; 22:8590-607.  
Heiser D, Labi V, Erlacher M, et al. The Bcl-2 protein family and its role in the development of neoplastic disease. *Exp. Geron.*2004; 39:1125-35.  
Grinberg M, Schwarz M, Zaltsman Y, et al. Mitochondrial carrier homolog 2 is a target of tBID in cells signaled to die by tumor necrosis factor alpha. *Mol. Cell. Biol.*2005; 25:4579-90.