

Mitochondria Antibody
Mouse monoclonal antibody
Catalog # AN1170**Specification**

Mitochondria Antibody - Product Information

Application	WB
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG1
Calculated MW	60 KDa

Mitochondria Antibody - Additional Information

Target/Specificity
Human cell homogenate.

Dilution
WB~~ 1:1000

Format
Total IgG fraction

Antibody Specificity
Specific for human mitochondria in all cell types. The antibody works on acetone fixed and 2% paraformaldehyde fixed cells. The antibody also works for immunohistochemistry on 2% paraformaldehyde fixed (5-10 minutes) cryostat sections.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

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

Shipping
Blue Ice

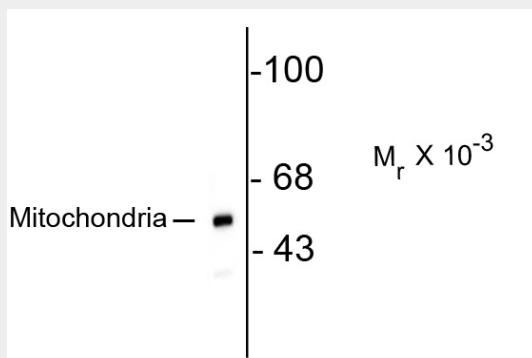
Mitochondria Antibody - Protocols

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](#)

Mitochondria Antibody - Images



Western blot of HeLa lysate showing specific immunolabeling of the ~ 60kmitochondrial protein.

Mitochondria Antibody - Background

Mitochondria are most commonly known as the power plants of the cell as they produce ATP, but they are also involved in many other important cellular processes such as cell signaling, growth and differentiation (McBride et al., 2006). In addition, mitochondria have been shown to play a role in apoptosis (Green 1998). This antibody is an excellent marker for human cells in xenographic model research. It reacts specifically with human cells, including neurons and embryonic stem cells.

Mitochondria Antibody - References

McBride HM, Neuspiel M, Wasiak S (2006) Mitochondria: More than just a powerhouse. *Curr Biol.* 16(14):R551-60

Green DR (1998) Apoptotic pathways: the roads to ruin. *Cell* 94(6):695-8.