

TECHNICAL DATA SHEET**Catalog # MSA12****ApoTrack™ Cytochrome c Apoptosis WB Antibody Cocktail**

Rev.3

LOT #:

COMPONENTS: 180 µg monoclonal antibody cocktail.

Cocktail composition:

Antigen	Amount (µg)	Working conc. (µg/mL)	Immunogen
Cyt. c	50	1	Bovine cytochrome c
GAPDH	5	0.1	Human GAPDH
PDH-E1-α	100	2	Pig PDH
C-V-α	25	0.5	Bovine Complex V

APPLICATIONS: Western blotting detection of cytochrome c release from mitochondria triggering apoptosis.**SPECIES CROSS-RE-ACTIVITY:** Human**HOST SPECIES:** Mouse**CONCENTRATION:** 0.9 mg/mL in HEPES-Buffered Saline (HBS) with 0.02% azide as a preservative.**SUGGESTED WORKING CONCENTRATION:** The antibody cocktail (0.9 mg/mL) should be diluted 250x to a final working concentration of 3.6 µg/mL for Western blotting.**mAb PURITY:** Near homogeneity as judged by SDS-PAGE. The antibody was produced *in vitro* using hybridomas grown in serum-free medium, and then purified by biochemical fractionation.**STORAGE CONDITIONS:** Store at 4°C. Do not freeze.**COUNTRY OF ORIGIN:** USA**ADDITIONAL INFO:** Accompanied by 50 µg of human heart mitochondria for Western blotting control sample (MS801).**BACKGROUND:**

The permeabilization of mitochondrial outer membrane and the subsequent release of cytochrome c and other apoptogenic proteins from mitochondrial intermembrane space into the cytoplasm is considered a hallmark of many apoptotic pathways. Therefore assaying these proteins in mitochondrial and cytoplasmic fractions is of prime interest for many researchers.

MSA12 is a Western blot antibody cocktail that allows for the detection of cytochrome c in cytoplasmic and mitochondria-containing fractions for determining the proportion of released cytochrome c from mitochondria to the cytoplasm from apoptosis. The kit also includes antibodies against a cytoplasmic protein marker, glyceraldehyde-3-phosphodehydrogenase (GAPDH), and 2 mitochondrial markers, pyruvate dehydrogenase subunit E1-alpha (a matrix marker), and ATP synthase subunit alpha (an inner membrane marker). This set of control markers allows for the monitoring and/or optimization of the permeabilization conditions.

Note: This product is for research purposes only. It is not to be used in humans or for diagnostic purposes.

WARRANTY – MitoSciences Inc warrants that products will perform as indicated in the published Technical Data Sheet for 6 months from date of purchase when stored according to specifications and when used consistent with recommended protocols. If you experience results which materially differ from those described, send evidence of the non-performing product for replacement of the original product purchased or a credit toward any other of the company's products or services.