

MOAP1 (M-50): sc-67320

BACKGROUND

MOAP1 (Modulator of apoptosis 1) is a 352 amino acid protein encoded by the human gene MOAP1. MOAP1 belongs to the PNMA family and contains one BH3-like domain and one RASSF1-binding domain. It is required for death receptor-dependent apoptosis. When MOAP1 is associated with RASSF1, it promotes a Bax conformational change and translocation to mitochondrial membranes in response to TNF and TNFSF10 stimulation. MOAP1 is a homodimer and under normal circumstances, held in an inactive conformation by an intramolecular interaction. Binding to RASSF1 isoform A (RASSF1A) relieves this inhibitory interaction and allows further binding to Bax. MOAP1 will also bind to Bcl-2 and Bcl-x.

REFERENCES

1. Tan, K.O., Tan, K.M., Chan, S.L., Yee, K.S., Bevort, M., Ang, K.C. and Yu, V.C. 2001. MAP-1, a novel proapoptotic protein containing a BH3-like motif that associates with Bax through its Bcl-2 homology domains. *J. Biol. Chem.* 276: 2802-2807.
2. Tan, K.O., Fu, N.Y., Sukumaran, S.K., Chan, S.L., Kang, J.H., Poon, K.L., Chen, B.S. and Yu, V.C. 2005. MAP-1 is a mitochondrial effector of Bax. *Proc. Natl. Acad. Sci. USA* 102: 14623-14628.

CHROMOSOMAL LOCATION

Genetic locus: MOAP1 (human) mapping to 14q32.12; Moap1 (mouse) mapping to 12 E.

SOURCE

MOAP1 (M-50) is a rabbit polyclonal antibody raised against amino acids 303-352 mapping at the C-terminus of MOAP1 of mouse origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

MOAP1 (M-50) is recommended for detection of MOAP1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for MOAP1 siRNA (h): sc-62629, MOAP1 siRNA (m): sc-62630, MOAP1 shRNA Plasmid (h): sc-62629-SH, MOAP1 shRNA Plasmid (m): sc-62630-SH, MOAP1 shRNA (h) Lentiviral Particles: sc-62629-V and MOAP1 shRNA (m) Lentiviral Particles: sc-62630-V.

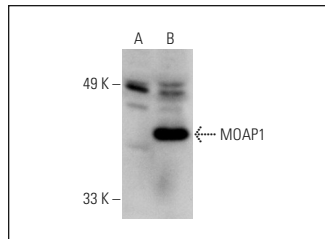
Molecular Weight of MOAP1: 40 kDa.

Positive Controls: MOAP1 (h): 293 Lysate: sc-112238, MOAP1 (m): 293T Lysate: sc-121704 or A-10 cell lysate: sc-3806.

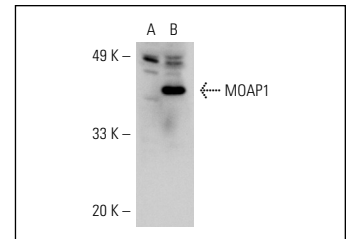
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



MOAP1 (M-50): sc-67320. Western blot analysis of MOAP1 expression in non-transfected: sc-110760 (A) and human MOAP1 transfected: sc-112238 (B) 293 whole cell lysates.



MOAP1 (M-50): sc-67320. Western blot analysis of MOAP1 expression in non-transfected: sc-110760 (A) and human MOAP1 transfected: sc-112238 (B) 293 whole cell lysates.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.



Try **MOAP1 (A-11): sc-271338** or **MOAP1 (E-8): sc-271467**, our highly recommended monoclonal alternatives to MOAP1 (M-50).