

Muted (H-126): sc-366158

BACKGROUND

Biogenesis of lysosome-related organelles complex-1 (BLOC-1) is a multisubunit protein necessary for biogenesis of specialized organelles of the endosomal-lysosomal system (such as melanosomes and platelet-dense granules). The complex consists of coiled-coil-forming proteins snapin, pallidin, cappuccino, Muted, BLOS1, BLOS2, and BLOS3. The localization of these proteins varies as they can be cytoplasmic, peripheral membrane bound or anchored to the vesicular membrane. The Muted (μ) mouse is a model for Hermansky-Pudlak syndrome (HPS), an inherited disorder in humans causing hypopigmentation, hemorrhaging and early death due to lung abnormalities. The Muted gene is ubiquitously expressed with higher levels in brain, bone marrow, kidney, and liver and lower levels in skeletal muscle.

REFERENCES

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- Gwynn, B., et al. 2004. Reduced pigmentation (rp), a mouse model of Hermansky-Pudlak syndrome, encodes a novel component of the BLOC-1 complex. *Blood* 104: 3181-3189.
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- Starcevic, M., et al. 2004. Identification of snapin and three novel proteins (BLOS1, BLOS2, and BLOS3/reduced pigmentation) as subunits of biogenesis of lysosome-related organelles complex-1 (BLOC-1). *J. Biol. Chem.* 279: 28393-28401.

CHROMOSOMAL LOCATION

Genetic locus: BLOC1S5 (human) mapping to 6p24.3; Muted (mouse) mapping to 13 A3.3.

SOURCE

Muted (H-126) is a rabbit polyclonal antibody raised against amino acids 64-187 mapping at the C-terminus of Muted of human origin.

PRODUCT

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

STORAGE

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

APPLICATIONS

Muted (H-126) is recommended for detection of Muted of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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).

Muted (H-126) is also recommended for detection of Muted in additional species, including equine and canine.

Suitable for use as control antibody for Muted siRNA (h): sc-61108, Muted siRNA (m): sc-61109, Muted shRNA Plasmid (h): sc-61108-SH, Muted shRNA Plasmid (m): sc-61109-SH, Muted shRNA (h) Lentiviral Particles: sc-61108-V and Muted shRNA (m) Lentiviral Particles: sc-61109-V.

Molecular Weight of Muted: 24 kDa.

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.

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.