SANTA CRUZ BIOTECHNOLOGY, INC.

Pallidin (A-11): sc-515608

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Biogenesis of lysosome-related organelles complex-1 (BLOC-1) is a multi-subunit 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. Pallidin, also designated Syntaxin 13-interacting protein, is widely expressed and can also exist as a soluble protein. Pallidin protein is significant in the development of lysosome-related organelles, such as melanosomes and platelet-dense granules. Pallidin is also implicated in intracellular vesicle trafficking as it pertains to vesicle-docking and fusion.

REFERENCES

1. Huang, L., et al. 1999. The pallid gene encodes a novel, syntaxin 13-interacting protein involved in platelet storage pool deficiency. Nat. Genet. 23: 329-332.
2. Falcon-Perez, J.M., et al. 2002. The pallidin (Pldn) gene and the role of SNARE proteins in melanosome biogenesis. Pigment Cell Res.15: 82-86.
3. Moriyama, K., et al. 2002. Pallidin is a component of a multi-protein complex involved in the biogenesis of lysosome-related organelles. Traffic 3: 666-677.
4. Falcon-Perez, J.M., et al. 2002. BLOC-1, a novel complex containing the pallidin and muted proteins involved in the biogenesis of melanosomes and platelet-dense granules. J. Biol. Chem. 277: 28191-28199.

CHROMOSOMAL LOCATION

Genetic locus: BLOC1S6 (human) mapping to 15q21.1; Bloc1s6 (mouse) mapping to 2 E5.

SOURCE

Pallidin (A-11) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 94-111 within an internal region of Pallidin of human origin.

PRODUCT

Each vial contains 200 µg IgG_1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Pallidin (A-11) is available conjugated to agarose (sc-515608 AC), 500 µg/ 0.25 ml agarose in 1 ml, for IP; to HRP (sc-515608 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-515608 PE), fluorescein (sc-515608 FITC), Alexa Fluor® 488 (sc-515608 AF488), Alexa Fluor® 546 (sc-515608 AF546), Alexa Fluor® 594 (sc-515608 AF594) or Alexa Fluor® 647 (sc-515608 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-515608 AF680) or Alexa Fluor® 790 (sc-515608 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-515608 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

APPLICATIONS

Pallidin (A-11) is recommended for detection of Pallidin of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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 Pallidin siRNA (h): sc-45204, Pallidin siRNA (m): sc-45205, Pallidin shRNA Plasmid (h): sc-45204-SH, Pallidin shRNA Plasmid (m): sc-45205-SH, Pallidin shRNA (h) Lentiviral Particles: sc-45204-V and Pallidin shRNA (m) Lentiviral Particles: sc-45205-V.

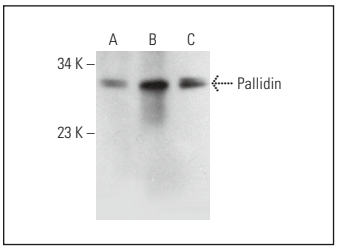
Molecular Weight of Pallidin: 20 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, mouse spleen extract: sc-2391 or human spleen extract: sc-363779.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



Pallidin (A-11): sc-515608. Western blot analysis of Pallidin expression in HeLa whole cell lysate (**A**) and mouse spleen (**B**) and human spleen (**C**) tissue extracts.

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.