SANTA CRUZ BIOTECHNOLOGY, INC.

Dysbindin (B-13): sc-46930

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Hermansky-Pudlak syndrome (HPS) is a rare, genetically heterogeneous, autosomal recessive disorder. It is characterized by oculocutaneous albinism, lysosomal storage defects and prolonged bleeding due to platelet storage pool deficiency. HPS is a result of defects in various cytoplasmic organelles such as melanosomes, platelet dense granules and lysosomes. The HPS proteins, including HPS-1–6 and Dysbindin (also designated HPS-7), all interact within three distinct, ubiquitously expressed protein complexes or biogenesis of lysosome-related organelle complexes. Defects in the genes encoding for these proteins are the cause of HPS. Dysbindin binds to dystrobrevins in the dystrophin-associated protein complex (DPC) complex. Dysbindin is a cytoplasmic protein. Isoforms 1 and 2 are the result of alternative splicing.

REFERENCES

1. Schosser, A. and Aschauer, H.N. 2004. In search of susceptibility genes for schizophrenia. Wien. Klin. Wochenschr. 116: 827-833.
2. Numakawa, T., et al. 2004. Evidence of novel neuronal functions of Dysbindin, a susceptibility gene for schizophrenia. Hum. Mol. Genet. 13: 2699-2708.

CHROMOSOMAL LOCATION

Genetic locus: DTNBP1 (human) mapping to 6p22.3.

SOURCE

Dysbindin (B-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of Dysbindin of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-46930 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

Dysbindin (B-13) is recommended for detection of Dysbindin isoform 2 of 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); non cross-reactive with Dysbindin isoform 1.

Suitable for use as control antibody for Dysbindin siRNA (h): sc-60560, Dysbindin shRNA Plasmid (h): sc-60560-SH and Dysbindin shRNA (h) Lentiviral Particles: sc-60560-V.

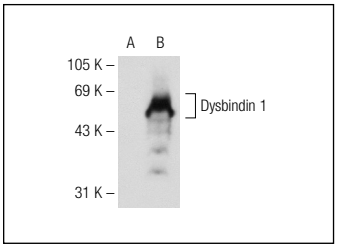
Molecular Weight of Dysbindin: 40-50 kDa.

Positive Controls: Dysbindin 1 (h2): 293T Lysate: sc-177154, IMR-32 cell lysate: sc-2409 or Hep G2 cell lysate: sc-2227.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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 donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



Dysbindin (B-13): sc-46930. Western blot analysis of Dysbindin 1 expression in non-transfected: sc-117752 (**A**) and human Dysbindin 1 transfected: sc-177154 (**B**) 293T 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.

PROTOCOLS

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