

Dysbindin (D-20): sc-46931

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.

CHROMOSOMAL LOCATION

Genetic locus: DTNBP1 (human) mapping to 6p22.3; Dtnbp1 (mouse) mapping to 13 A5.

SOURCE

Dysbindin (D-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near 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-46931 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

Dysbindin (D-20) is recommended for detection of Dysbindin isoforms 1 and 2 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).

Dysbindin (D-20) is also recommended for detection of Dysbindin isoforms 1 and 2 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for Dysbindin siRNA (h): sc-60560, Dysbindin siRNA (m): sc-60561, Dysbindin shRNA Plasmid (h): sc-60560-SH, Dysbindin shRNA Plasmid (m): sc-60561-SH, Dysbindin shRNA (h) Lentiviral Particles: sc-60560-V and Dysbindin shRNA (m) Lentiviral Particles: sc-60561-V.

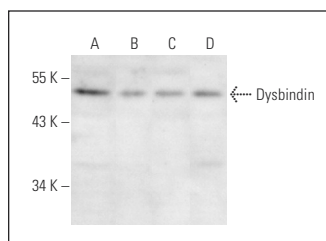
Molecular Weight of Dysbindin: 40-50 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, SK-N-SH cell lysate: sc-2410 or Hep G2 cell lysate: sc-2227.

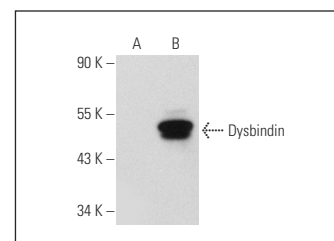
RECOMMENDED SECONDARY REAGENTS

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 (D-20): sc-46931. Western blot analysis of Dysbindin expression in HeLa (A), SK-N-SH (B), Hep G2 (C) and IMR-32 (D) whole cell lysates.



Dysbindin (D-20): sc-46931. Western blot analysis of Dysbindin expression in non-transfected: sc-117752 (A) and mouse Dysbindin transfected: sc-119875 (B) 293T whole cell lysates.

SELECT PRODUCT CITATIONS

1. Mead, C.L., et al. 2010. Cytosolic protein interactions of the schizophrenia susceptibility gene dysbindin. *J. Neurochem.* 113: 1491-1503.

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 **Dysbindin (D-8): sc-390626** or **Dysbindin (B-5): sc-398872**, our highly recommended monoclonal alternatives to Dysbindin (D-20).