**BACKGROUND**

Familial cylindromatosis is an autosomal dominant genetic predisposition to multiple benign neoplasms of the skin known as cylindromas. These cylindromas may become infected, resulting in disfigurement and discomfort. In severe cases, ulcerated cylindromas are only treatable by reconstructive surgery with skin grafts. The human CYLD gene on chromosome 16q12.1 encodes the protein cylindromatosis 1. Mutations in this gene are responsible for familial cylindromatosis. The cylindromatosis 1 protein contains three cytoskeletal-associated protein-glycine-continuously (CAP-GLY) domains and may function to coordinate the attachment of organelles to microtubules. Cylindromatosis 1 is expressed in brain, gonads, skeletal muscle, spleen, liver, heart, lung and leukocytes. Somatic mutations of the CYLD gene appear to play a role in the oncogenesis of tumors with cylindromatous features.

**CHROMOSOMAL LOCATION**

Genetic locus: CYLD (human) mapping to 16q12.1; Cyl (mouse) mapping to 8 C3.

**SOURCE**

Cylindromatosis 1 (H-6) is a mouse monoclonal antibody raised against the C-terminal 419 amino acids of cylindromatosis 1 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG₂κ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Cylindromatosis 1 (H-6) is available conjugated to agarose (sc-137139 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-137139 HRP), 200 µg/ml, for WB, HRP and ELISA; to either phycoerythrin (sc-137139 PE), fluorescein (sc-137139 FITC), Alexa Fluor® 488 (sc-137139 AF488), Alexa Fluor® 546 (sc-137139 AF546), Alexa Fluor® 594 (sc-137139 AF594) or Alexa Fluor®647 (sc-137139 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-137139 AF680) or Alexa Fluor® 790 (sc-137139 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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**APPLICATIONS**

Cylindromatosis 1 (H-6) is recommended for detection of cylindromatosis 1 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 cylindromatosis 1 siRNA (h): sc-37326, cylindromatosis 1 siRNA (m): sc-37277, cylindromatosis 1 shRNA Plasmid (h): sc-37326-SH, cylindromatosis 1 shRNA Plasmid (m): sc-37327-SH, cylindromatosis 1 shRNA (h) Lentiviral Particles: sc-37326-V and cylindromatosis 1 shRNA (m) Lentiviral Particles: sc-37327-V.

Molecular Weight of cylindromatosis 1: 120 kDa.

Positive Controls: cylindromatosis 1 (m): 293T Lysate: sc-119562, mouse brain extract: sc-2253 or Jurkat whole cell lysate: sc-2204.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:

1. Western Blotting: use m-IgG BP-HRP or m-IgG BP-HRP (Cruz Marker): sc-516102 or m-IgG BP-HRP. 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).


**DATA**

**SELECT PRODUCT CITATIONS**


**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.