**BACKGROUND**

Cullin proteins comprise a distinct family of mediators that participate in the selective targeting of proteins for ubiquitin (Ub)-mediated proteolysis. CUL-1, which is the mammalian homolog of yeast Cdc53, is an integral component of the E3 ubiquitin ligase complex designated SCF. The SCF (Skp1/CUL-1/F-box protein complex) consists of Skp1 associating with both CUL-1 and an F-box protein, such as Skp2, which determines the substrate specificity of the complex. CUL-1-mediated ubiquitination results in the degradation of cell cycle proteins cyclin D, p21 and cyclin E. Another cullin, CUL-3, facilitates the degradation of cyclin E independent of SCF activity, while CUL-2 associates with the tumor suppressing protein VHL and elongin B to form VBC complexes, which structurally resemble the SCF ligase. Proteolysis also occurs by way of CUL-4 tumor suppressing protein VHL and elongin B to form VBC complexes, which associates with Nedd-8, a ubiquitin-like protein, where it too functions as an active component of a multi-functional E3 complex. CUL-5, also designated vasopressin-activated, calcium-mobilizing protein (VACM-1), is also included in the cullin family as it shares substantial sequence homology with CUL-1.

**CHROMOSOMAL LOCATION**

Genetic locus: CUL2 (human) mapping to 10p11.21; Cul2 (mouse) mapping to 18 A1.

**SOURCE**

CUL-2 (C-4) is a mouse monoclonal antibody raised against amino acids 1-300 mapping at the N-terminus of CUL-2 (cullin-2) of human origin.

**PRODUCT**

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

CUL-2 (C-4) is available conjugated to agarose (sc-166506 AC), 500 µg/0.25 ml sodium azide and 0.1% gelatin.

CUL-2 (C-4) is recommended for detection of CUL-2 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).


**RECOMMENDED SUPPORT REAGENTS**

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


**DATA**

CUL-2 (C-4): sc-166506. Near-infrared western blot analysis of CUL-2 expression in Raji (A), K-562 (B), NIH/3T3 (C) and CB (D) whole cell lysates. Blocked with UltraCruz® Blocking Reagent: sc-516214. Detection reagent used: m-IgGκ BP-CFL 790: sc-516181.

**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.