**BACKGROUND**

Williams syndrome (WS) is a developmental disorder characterized by cardiovascular problems, dysmorphic features, mental retardation or learning difficulties and several typical behavioral and neurological abnormalities. In Williams syndrome patients, a heterozygous deletion is present in a region on chromosome 7q11.23 (the Williams syndrome critical region), which spans approximately 20 genes. This region comprises the CYLN2 gene, which encodes the cytoplasmic linker protein of (CLIP-115). CLIP-115 is a microtubule-binding protein that is abundantly expressed in the brain. Mice with haploinsufficiency for the CYLN2 gene have features similar to that of WS, including mild growth deficiency, brain abnormalities, hippocampal dysfunction and particular deficits in motor coordination.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: CLIP2 (human) mapping to 7q11.23; Clip2 (mouse) mapping to 5 G2.

**SOURCE**

CLIP-115 (14) is a mouse monoclonal antibody raised against amino acids 801-917 of CLIP-115 of rat origin.

**PRODUCT**

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

**RESEARCH USE**

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

**APPLICATIONS**

CLIP-115 (14) is recommended for detection of CLIP-115 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)] and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).


**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG BP-HRP: sc-516102 or m-IgG 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).

**DATA**

CLIP-115 (14): sc-135869. Western blot analysis of CLIP-115 expression in non-transfected 293: sc-110760 (A), human CLIP-115 transfected 293: sc-128332 (B) and HeLa (C) whole cell lysates and rat hippocampus (D) and rat brain (E) tissue extracts.

**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 for detailed protocols and support products.