EVC (H-1): sc-271955

**BACKGROUND**

EVC, or Ellis-van Creveld syndrome, is an autosomal skeletal dysplasia caused by mutations in the EVC and EVC2 genes. Found in developing ribs, heart, kidney and lung, the EVC gene is responsible for normal development of the face, limbs, teeth and nails. The protein expressed by the EVC gene is an intracellular component of the hedgehog signal pathway that contains a leucine zipper and transmembrane domain. Defects in the EVC gene can lead to short-limb dwarfism, ectodermal dysplasia and cardiac anomalies such as irregular atrioventricular septum development. Additionally, the EVC gene has been implicated in Weyers acrofacial dysostosis, an autosomal dominant disease characterized by facial abnormalities and limb defects.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: EVC (human) mapping to 4p16.2; Evc (mouse) mapping to 5 B3.

**SOURCE**

EVC (H-1) is a mouse monoclonal antibody raised against amino acids 181-480 mapping within an internal region of EVC 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.

EVC (H-1) is available conjugated to agarose (sc-271955 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-271955 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-271955 PE), fluorescein (sc-271955 FITC), Alexa Fluor® 488 (sc-271955 AF488), Alexa Fluor® 546 (sc-271955 AF546), Alexa Fluor® 594 (sc-271955 AF594) or Alexa Fluor® 647 (sc-271955 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-271955 AF680) or Alexa Fluor® 790 (sc-271955 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

EVC (H-1) is recommended for detection of EVC 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 EVC siRNA (h); sc-72235, EVC siRNA (m); sc-72236, EVC shRNA Plasmid (h); sc-72235-SH, EVC shRNA Plasmid (m); sc-72236-SH, EVC shRNA (h) Lentiviral Particles: sc-27225-V and EVC shRNA (m) Lentiviral Particles: sc-27226-V.

Molecular Weight of EVC: 124 kDa.

Positive Controls: MCF7 nuclear extract: sc-2149, C6 whole cell lysate: sc-364373 or P19 cell lysate: sc-24760.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG HRP: sc-516102 or m-IgG 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]. 3) Immunofluorescence: use m-IgG HRP-FITC: sc-516140 or m-IgG HRP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

**DATA**

[Graphs showing EVC (H-1) Western blot analysis of EVC expression in C6 whole cell lysate and EVC (H-1) Western blot analysis of EVC expression in P19 whole cell lysate.]

**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.