SANTA CRUZ BIOTECHNOLOGY, INC.

CPXCR1 (H-9): sc-271598



BACKGROUND

CPXCR1 (CPX chromosomal region candidate gene 1 protein) is a 301 amino acid protein encoded by the human gene CPXCR1 located on the X chromosome. The CPXCR1 chromosomal region is known as the X-linked cleft palate and ankyloglossia (CPX) critical region. X-linked cleft palate (CPX), a congenital, semi-dominant disorder that is influenced only by genetic factors, is influenced by mutations within this region. Ankyloglossia (tongue-tie) is also associated with X-linked cleft palate in an Icelandic population. In this population the gene responsible for cleft palate (CPX) was assigned to the Xq21.3-q22 region between DXYS12 and DXS17.

REFERENCES

- 1. Björnsson, A., et al. 1989. X-linked cleft palate and ankyloglossia in an Icelandic family. Cleft Palate J. 26: 3-8.
- Gorski, S.M., et al. 1992. The gene responsible for X-linked cleft palate (CPX) in a British Columbia native kindred is localized between PGK1 and DXYS1. Am. J. Hum. Genet. 50: 1129-1136.
- Gorski, S.M., et al. 1994. Linkage analysis of X-linked cleft palate and ankyloglossia in Manitoba Mennonite and British Columbia native kindreds. Hum. Genet. 94: 141-148.
- Forbes, S.A., et al. 1996. Refined mapping and YAC contig construction of the X-linked cleft palate and ankyloglossia locus (CPX) including the proximal X-Y homology breakpoint within Xq21.3. Genomics 31: 36-43.

CHROMOSOMAL LOCATION

Genetic locus: CPXCR1 (human) mapping to Xq21.31; Cpxcr1 (mouse) mapping to X E1.

SOURCE

CPXCR1 (H-9) is a mouse monoclonal antibody raised against amino acids 1-88 mapping at the N-terminus of CPXCR1 of human origin.

PRODUCT

Each vial contains 200 μ g lgG_{2a} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

CPXCR1 (H-9) is available conjugated to agarose (sc-271598 AC), 500 μ g/ 0.25 ml agarose in 1 ml, for IP; to HRP (sc-271598 HRP), 200 μ g/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-271598 PE), fluorescein (sc-271598 FITC), Alexa Fluor[®] 488 (sc-271598 AF488), Alexa Fluor[®] 546 (sc-271598 AF546), Alexa Fluor[®] 594 (sc-271598 AF594) or Alexa Fluor[®] 647 (sc-271598 AF647), 200 μ g/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor[®] 680 (sc-271598 AF680) or Alexa Fluor[®] 790 (sc-271598 AF790), 200 μ g/ml, for Near-Infrared (NIR) WB, IF and FCM.

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STORAGE

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

APPLICATIONS

CPXCR1 (H-9) is recommended for detection of CPXCR1 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (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 CPXCR1 siRNA (h): sc-90983, CPXCR1 siRNA (m): sc-142552, CPXCR1 shRNA Plasmid (h): sc-90983-SH, CPXCR1 shRNA Plasmid (m): sc-142552-SH, CPXCR1 shRNA (h) Lentiviral Particles: sc-90983-V and CPXCR1 shRNA (m) Lentiviral Particles: sc-142552-V.

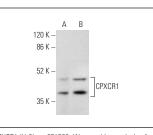
Molecular Weight of CPXCR1: 35 kDa.

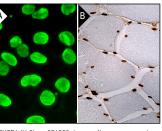
Positive Controls: Jurkat whole cell lysate: sc-2204, HeLa whole cell lysate: sc-2200 or SCC-4 whole cell lysate: sc-364363.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz MarkerTM 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 κ BP-FITC: sc-516140 or m-IgG κ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz[®] Mounting Medium: sc-24941 or UltraCruz[®] Hard-set Mounting Medium: sc-359850. 4) Immunohistochemistry: use m-IgG κ BP-HRP: sc-516102 with DAB, 50X: sc-24982 and Immunohistomount: sc-45086, or Organo/Limonene Mount: sc-45087.

DATA





CPXCR1 (H-9): sc-271598. Western blot analysis of CPXCR1 expression in Jurkat $({\rm A})$ and HeLa $({\rm B})$ whole cell lysates.

CPXCR1 (H-9): sc-271598. Immunofluorescence staining of formalin-fixed Hep G2 cells showing nuclear localization (**A**). Immunoperoxidase staining of formalin fixed, paraffin-embedded human skeletal muscle tissue showing nuclear staining of myocytes (**B**).

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.