SANTA CRUZ BIOTECHNOLOGY, INC.

PLEKHA5 (N-14): sc-168966

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The Power to Question

BACKGROUND

PLEKHA5 (pleckstrin homology domain containing, family A member 5), also known as KIAA1686 or PEPP2, is a 1,116 amino acid protein that contains one PH domain and two WW domains and is highly expressed in kidney and heart tissue. Multiple isoforms of PLEKHA5 exist due to alternative splicing events. The gene encoding PLEKHA5 maps to human chromosome 12, which encodes over 1,100 genes and comprises about 4.5% of the human genome. A number of skeletal deformities are linked to chromosome 12, including hypochondrogenesis, achondrogenesis and Kniest dysplasia. Chromosome 12 is also home to a homeobox gene cluster which encodes crucial transcription factors for morphogenesis, and the natural killer complex gene cluster encoding C-type lectin proteins which mediate the NK cell response to MHC class I interaction.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PLEKHA5 (human) mapping to 12p12.3; Plekha5 (mouse) mapping to 6 G2.

SOURCE

PLEKHA5 (N-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of PLEKHA5 of human origin.

STORAGE

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

PRODUCT

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

Blocking peptide available for competition studies, sc-168966 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

PLEKHA5 (N-14) is recommended for detection of PLEKHA5 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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); non cross-reactive with other PLEKHA family members.

PLEKHA5 (N-14) is also recommended for detection of PLEKHA5 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for PLEKHA5 siRNA (h): sc-95837, PLEKHA5 siRNA (m): sc-152306, PLEKHA5 shRNA Plasmid (h): sc-95837-SH, PLEKHA5 shRNA Plasmid (m): sc-152306-SH, PLEKHA5 shRNA (h) Lentiviral Particles: sc-95837-V and PLEKHA5 shRNA (m) Lentiviral Particles: sc-152306-V.

Molecular Weight of PLEKHA5: 127 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

RESEARCH USE

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

PROTOCOLS

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