

KNL2 (T-15): sc-162589

BACKGROUND

Chromosome 14 contains about 700 genes and 106 million base pairs and makes up about 3.5% of human cellular DNA. Chromosome 14 encodes the presenilin 1 (PSEN1) gene, which is one of the three key genes associated with the development of Alzheimer's disease. The SERPINA1 gene is located on chromosome 14 and when defective leads to the genetic disorder α 1-antitrypsin deficiency. This disorder is characterized by severe lung complications and liver dysfunction. Notably, the immunoglobulin heavy chain locus is found on chromosome 14 and has been identified as a fusion with the chromosome 19 encoded protein Bcl-3 in the translocations found in a variety of B cell malignancies. The KNL2 gene product has been provisionally designated KNL2 pending further characterization.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: MIS18BP1 (human) mapping to 14q21.2; Mis18bp1 (mouse) mapping to 12 C1.

SOURCE

KNL2 (T-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of KNL2 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 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-162589 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-162589 X, 200 μ g/0.1 ml.

APPLICATIONS

KNL2 (T-15) is recommended for detection of KNL2 of human and mouse origin and the corresponding rat homolog by Western Blotting (starting dilution 1:200, 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

KNL2 (T-15) is also recommended for detection of KNL2 in additional species, including equine, canine, bovine and porcine.

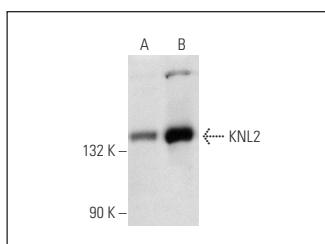
Suitable for use as control antibody for KNL2 siRNA (h): sc-92201, KNL2 siRNA (m): sc-141932, KNL2 shRNA Plasmid (h): sc-92201-SH, KNL2 shRNA Plasmid (m): sc-141932-SH, KNL2 shRNA (h) Lentiviral Particles: sc-92201-V and KNL2 shRNA (m) Lentiviral Particles: sc-141932-V.

KNL2 (T-15) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

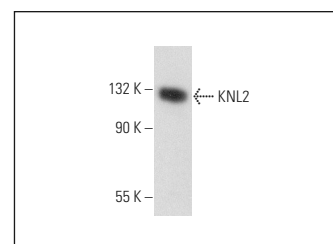
Molecular Weight of KNL2: 130 kDa.

Positive Controls: KNL2 (h): 293T Lysate: sc-117006 or HeLa nuclear extract: sc-2120.

DATA



KNL2 (T-15): sc-162589. Western blot analysis of KNL2 expression in non-transfected: sc-117752 (A) and human KNL2 transfected: sc-117006 (B) 293T whole cell lysates.



KNL2 (T-15): sc-162589. Western blot analysis of KNL2 expression in HeLa nuclear extract.

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.