

ANKRD36 (E-15): sc-137289

BACKGROUND

Ankyrins are membrane adaptor molecules that play important roles in coupling integral membrane proteins to the spectrin-based cytoskeleton network. Mutations of ankyrin genes lead to severe genetic diseases, such as fatal cardiac arrhythmias and hereditary spherocytosis. ANKRD36 (ankyrin repeat domain 36), also known as ANKRD36A, is a 1,941 amino acid protein that contains 6 ANK repeats and belongs to the ANKRD36 family. Existing as four alternatively spliced isoforms, ANKRD36 is encoded by a gene that maps to human chromosome 2q11.2. Translocation of exon 2 at chromosome 2q11.2, which includes ANKRD36, and intron 1 at chromosome 11p15.1 may be associated with T-cell acute lymphoblastic leukemia. As the second largest human chromosome, chromosome 2 makes up approximately 8% of the human genome and contains 237 million bases encoding over 1,400 genes. Chromosome 2 contains a probable vestigial second centromere, as well as vestigial telomeres, which gives credence to the hypothesis that human chromosome 2 formed as a result of an ancient fusion of two ancestral chromosomes, which are still present in modern day apes.

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CHROMOSOMAL LOCATION

Genetic locus: ANKRD36 (human) mapping to 2q11.2.

RESEARCH USE

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

SOURCE

ANKRD36 (E-15) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of ANKRD36 of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-137289 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

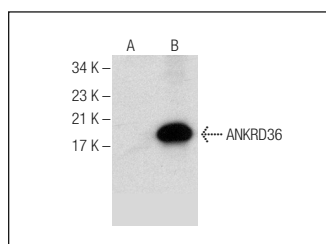
ANKRD36 (E-15) is recommended for detection of ANKRD36 of human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other ANKRD family members.

Suitable for use as control antibody for ANKRD36 siRNA (h): sc-95005, ANKRD36 shRNA Plasmid (h): sc-95005-SH and ANKRD36 shRNA (h) Lentiviral Particles: sc-95005-V.

Molecular Weight of ANKRD36 isoforms 1-4: 217/83/19/20 kDa.

Positive Controls: ANKRD36 (h): 293T Lysate: sc-116243.

DATA



ANKRD36 (E-15): sc-137289. Western blot analysis of ANKRD36 expression in non-transfected: sc-117752 (A) and human ANKRD36 transfected: sc-116243 (B) 293T whole cell lysates.

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 or our catalog for detailed protocols and support products.