C16orf62 (T-12): sc-136577



The Power to Question

BACKGROUND

C16orf62, also known as FLJ21040, MGC16824 or DKFZp313M0539, is a 963 amino acid membrane protein encoded by a gene mapping to human chromosome 16. Chromosome 16 encodes over 900 genes in approximately 90 million base pairs, makes up nearly 3% of human cellular DNA and is associated with a variety of genetic disorders. The GAN gene is located on chromosome 16 and, with mutation, may lead to giant axonal neuropathy, a nervous system disorder characterized by increasing malfunction with growth. The rare disorder Rubinstein-Taybi syndrome is also associated with chromosome 16, though through the CREBBP gene which encodes a critical CREB binding protein. Signs of Rubinstein-Taybi include mental retardation and predisposition to tumor growth and white blood cell neoplasias. Crohn's disease is a gastrointestinal inflammatory condition associated with chromosome 16 through the NOD2 gene. An association with systemic lupus erythematosis and a number of other autoimmune disorders with the pericentromeric region of chromosome 16 has led to the identification of SLC5A11 as a potential autoimmune modifier.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: C16orf62 (human) mapping to 16p12.3; 9030624J02Rik (mouse) mapping to 7 F2.

RESEARCH USE

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

SOURCE

C16orf62 (T-12) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of C16orf62 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-136577 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

C16orf62 (T-12) is recommended for detection of C16orf62 isoforms 1 and 2 of human origin, 9030624J02Rik of mouse origin and the corresponding rat homolog by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunoprecipitation [1-2 μ g per 100-500 μ g 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 C16orf family members.

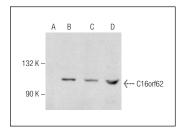
C16orf62 (T-12) is also recommended for detection of C16orf62 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for C16orf62 siRNA (h): sc-93061, 9030624J02Rik siRNA (m): sc-140510, C16orf62 shRNA Plasmid (h): sc-93061-SH, 9030624J02Rik shRNA Plasmid (m): sc-140510-SH, C16orf62 shRNA (h) Lentiviral Particles: sc-93061-V and 9030624J02Rik shRNA (m) Lentiviral Particles: sc-140510-V.

Molecular Weight of C16orf62: 110 kDa.

Positive Controls: C16orf62 (h): 293T Lysate: sc-176955, MOLT-4 cell lysate: sc-2233 or Raji cell lysate.

DATA



C16orf62 (T-12): sc-136577. Western blot analysis of C16orf62 expression in non-transfected 293T: sc-117752 (A), human C16orf62 transfected 293T: sc-176955 (B), MOLT-4 (C) and Raji (D) 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.