

KIAA1958 (G-12): sc-390319

BACKGROUND

KIAA1958 is a 716 amino acid uncharacterized protein. Existing as three alternatively spliced isoforms, KIAA1958 is encoded by a gene that maps to human chromosome 9q32 and mouse chromosome 4 B3. Chromosome 9 houses over 900 genes and comprises nearly 4% of the human genome. Hereditary hemorrhagic telangiectasia, which is characterized by harmful vascular defects, and Familial dysautonomia, are both associated with chromosome 9. Notably, chromosome 9 encompasses the largest interferon family gene cluster.

REFERENCES

- Zhuang, H., et al. 2006. Lupus-like disease and high interferon levels corresponding to trisomy of the type I interferon cluster on chromosome 9p. *Arthritis Rheum.* 54: 1573-1579.
- Burmeister, T., et al. 2007. Atypical Bcr-Abl mRNA transcripts in adult acute lymphoblastic leukemia. *Haematologica* 92: 1699-1702.
- Cottin, V., et al. 2007. Pulmonary vascular manifestations of hereditary hemorrhagic telangiectasia (Rendu-Osler disease). *Respiration* 74: 361-378.
- Zeit, M.J., et al. 2009. Organization of the amplified type I interferon gene cluster and associated chromosome regions in the interphase nucleus of human osteosarcoma cells. *Chromosome Res.* 17: 305-319.
- Gold-von Simson, G., et al. 2009. Kinetin in familial dysautonomia carriers: implications for a new therapeutic strategy targeting mRNA splicing. *Pediatr. Res.* 65: 341-346.
- Axelrod, F.B., et al. 2010. Neuroimaging supports central pathology in familial dysautonomia. *J. Neurol.* 257: 198-206.

CHROMOSOMAL LOCATION

Genetic locus: KIAA1958 (human) mapping to 9q32; E130308A19Rik (mouse) mapping to 4 B3.

SOURCE

KIAA1958 (G-12) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 76-95 near the N-terminus of KIAA1958 of human origin.

PRODUCT

Each vial contains 200 µg IgM kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-390319 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

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 for detailed protocols and support products.

APPLICATIONS

KIAA1958 (G-12) is recommended for detection of KIAA1958 of human origin, E130308A19Rik of mouse origin and the corresponding rat homolog by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg 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).

KIAA1958 (G-12) is also recommended for detection of KIAA1958 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for KIAA1958 siRNA (h): sc-92483, E130308A19Rik siRNA (m): sc-143239, KIAA1958 shRNA Plasmid (h): sc-92483-SH, E130308A19Rik shRNA Plasmid (m): sc-143239-SH, KIAA1958 shRNA (h) Lentiviral Particles: sc-92483-V and E130308A19Rik shRNA (m) Lentiviral Particles: sc-143239-V.

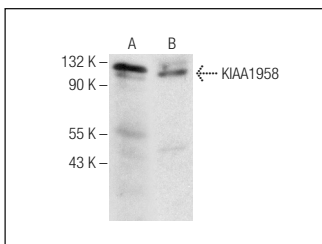
Molecular Weight of KIAA1958 isoforms 1/2: 79/82 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200 or U-2 OS cell lysate: sc-2295.

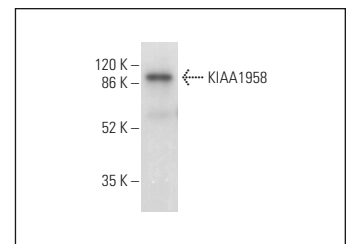
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein L-Agarose: sc-2336 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



KIAA1958 (G-12): sc-390319. Western blot analysis of KIAA1958 expression in HeLa (A) and 293T (B) whole cell lysates.



KIAA1958 (G-12): sc-390319. Western blot analysis of KIAA1958 expression in U-2 OS whole cell lysate.

RESEARCH USE

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