

KIAA1024 (S-20): sc-243175

BACKGROUND

KIAA1024 is a 916 amino acid protein that is a single-pass membrane protein and belongs to the UPF0258 family. This helical transmembrane protein undergoes heavy glycosylation and the gene encoding KIAA1024 maps to human chromosome 15. Chromosome 15 is made up of approximately 106 million base pairs and comprises about 3% of the human genome. Angelman and Prader-Willi syndromes are associated with loss of function or deletion of genes in the 15q11-q13 region. In the case of Angelman syndrome, this loss is due to inactivity of the maternal 15q11-q13 encoded UBE3A gene in the brain by either chromosomal deletion or mutation. In cases of Prader-Willi syndrome, there is a partial or complete deletion of this region from the paternal copy of chromosome 15. Tay-Sachs disease is a lethal disorder associated with mutations of the HEXA gene, which is encoded by chromosome 15. Marfan syndrome is associated with chromosome 15 through the FBN1 gene.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: KIAA1024 (human) mapping to 15q25.1; AF529169 (mouse) mapping to 9 E3.1.

SOURCE

KIAA1024 (S-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of KIAA1024 of human origin.

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-243175 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

KIAA1024 (S-20) is recommended for detection of KIAA1024 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, 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).

KIAA1024 (S-20) is also recommended for detection of KIAA1024 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for KIAA1024 siRNA (h): sc-90068, KIAA1024 shRNA Plasmid (h): sc-90068-SH and KIAA1024 shRNA (h) Lentiviral Particles: sc-90068-V.

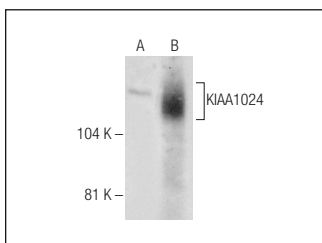
Molecular Weight of KIAA1024: 103 kDa.

Positive Controls: KIAA1024 (h): 293T Lysate: sc-175714.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



KIAA1024 (S-20): sc-243175. Western blot analysis of KIAA1024 expression in non-transfected: sc-117752 (A) and human KIAA1024 transfected: sc-175714 (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.

RESEARCH USE

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