**BACKGROUND**

ARKL1, also known as C18orf25, is a 403 amino acid protein that belongs to the ubiquitin ligase family and may be involved in the pathogenesis of psychiatric illnesses, including schizophrenia and bipolar affective disorder. The mouse and rat orthologs of ARKL1 are known as Arkadia 2. Human ARKL1 is expressed as 2 alternatively spliced isoforms that are encoded by a gene that maps to chromosome 18, which houses over 300 protein-coding genes and contains nearly 76 million bases. There are a variety of diseases associated with defects in chromosome 18-localized genes, some of which include Trisomy 18 (also known as Edwards syndrome), Niemann-Pick disease, hereditary hemorrhagic telangiectasia, erythropoietic protoporphyria and follicular lymphomas.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: C18orf25 (human) mapping to 18q21.1; B030462N17Rik (mouse) mapping to 18 E3.

**SOURCE**

ARKL1/Arkadia 2 (N-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping to the N-terminus of ARKL1 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-84701 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

**APPLICATIONS**

ARKL1/Arkadia 2 (N-20) is recommended for detection of ARKL1 of human origin and Arkadia 2 of mouse and rat 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).

**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**

ARKL1/Arkadia 2 (N-20): sc-84701. Western blot analysis of ARKL1 expression in non-transfected CHO (A), human ARKL1 transfected CHO (B) and MDA-MB-231 (C) 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.