

ARH2 (K-17): sc-83978

BACKGROUND

ARH2 (ADP-ribosylhydrolase 2), also known as ADPRHL1 (ADP-ribosylhydrolase like 1), is a 354 amino acid protein that catalyzes the removal of ADP-ribose from target proteins. ARH2 is expressed as two alternatively spliced isoforms which are encoded by a gene that maps to human chromosome 13. Comprising nearly 4% of the human genome, chromosome 13 contains around 114 million base pairs and encodes over 400 genes. Chromosome 13 houses key tumor suppressor genes, including BRCA2 and RB1, which are associated with breast cancer susceptibility and retinoblastoma, respectively. Trisomy 13, also known as Patau syndrome, is deadly and the few who survive past one year suffer from permanent neurologic defects, difficulty eating and vulnerability to serious respiratory infections.

REFERENCES

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4. Rohozinski, J., et al. 2006. UTP14c is a recently acquired retrogene associated with spermatogenesis and fertility in man. *Biol. Reprod.* 74: 644-651.
5. Oka, S., et al. 2006. Identification and characterization of a mammalian 39-kDa poly(ADP-ribose) glycohydrolase. *J. Biol. Chem.* 281: 705-713.
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CHROMOSOMAL LOCATION

Genetic locus: ADPRHL1 (human) mapping to 13q34; Adprhl1 (mouse) mapping to 8 A1.1.

SOURCE

ARH2 (K-17) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of ARH2 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-83978 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ARH2 (K-17) is recommended for detection of ARH2 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).

ARH2 (K-17) is also recommended for detection of ARH2 in additional species, including canine, bovine, porcine and avian.

Suitable for use as control antibody for ARH2 siRNA (h): sc-105087, ARH2 siRNA (m): sc-141197, ARH2 shRNA Plasmid (h): sc-105087-SH, ARH2 shRNA Plasmid (m): sc-141197-SH, ARH2 shRNA (h) Lentiviral Particles: sc-105087-V and ARH2 shRNA (m) Lentiviral Particles: sc-141197-V.

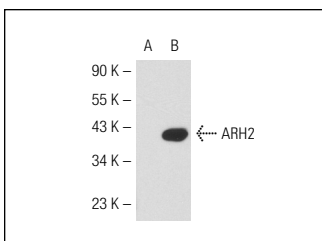
Molecular Weight of ARH2: 40 kDa.

Positive Controls: ARH2 (m): 293T Lysate: sc-118525.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



ARH2 (K-17): sc-83978. Western blot analysis of ARH2 expression in non-transfected: sc-117752 (A) and mouse ARH2 transfected: sc-118525 (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.