

ARHGAP6 (D-5): sc-81938

BACKGROUND

ARHGAP6 (Rho GTPase activating protein 6), also known as RHOGAP6 or RHOGAPX-1, is a widely expressed cytoplasmic protein that functions as a GTPase-activating protein specific for RhoA and as a cytoskeletal protein promoting Actin remodeling. ARHGAP6 contains three SH3 binding domains and a Rho GAP domain. In the cell, ARHGAP6 co-localizes with Actin filaments and, via its N-terminus, recruits F-Actin. The gene encoding ARHGAP6 is located on the X chromosome in the region that is deleted in patients with microphthalmia with linear skin defects (MLS), an X-linked dominant male-lethal syndrome. MLS is characterized by aplastic skin, agenesis of the corpus callosum and microphthalmia (a condition in which eyes fail to enlarge due to a malformation of the choroid fissure). Despite its absence in MLS patients, ARHGAP6 does not appear to participate in the pathogenesis of the disease.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ARHGAP6 (human) mapping to Xp22.2; Arhgap6 (mouse) mapping to X F5.

SOURCE

ARHGAP6 (D-5) is a mouse monoclonal antibody raised against recombinant ARHGAP6 of human origin.

PRODUCT

Each vial contains 50 µg IgG_{2a} kappa light chain in 0.5 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

ARHGAP6 (D-5) is recommended for detection of ARHGAP6 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for ARHGAP6 siRNA (h): sc-91170, ARHGAP6 siRNA (m): sc-141218, ARHGAP6 shRNA Plasmid (h): sc-91170-SH, ARHGAP6 shRNA Plasmid (m): sc-141218-SH, ARHGAP6 shRNA (h) Lentiviral Particles: sc-91170-V and ARHGAP6 shRNA (m) Lentiviral Particles: sc-141218-V.

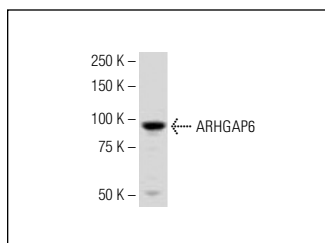
Molecular Weight of ARHGAP6: 106 kDa.

Positive Controls: K-562 whole cell lysate: sc-2203.

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, 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).

DATA



ARHGAP6 (D-5): sc-81938. Western blot analysis of ARHGAP6 expression in K-562 whole cell lysate.

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.