

AK8 (4B6): sc-134291



The Power to Question

BACKGROUND

Chromosome 9 consists of about 145 million bases and 4% of the human genome and encodes nearly 900 genes. Considered to play a role in gender determination, deletion of the distal portion of 9p can lead to development of male to female sex reversal, the phenotype of a female with a male X,Y genotype. Hereditary hemorrhagic telangiectasia, which is characterized by harmful vascular defects, is associated with the chromosome 9 gene encoding endoglin protein, ENG. Familial dysautonomia is also associated with chromosome 9 through the gene IKBKAP. Notably, chromosome 9 encompasses the largest interferon family gene cluster. Chromosome 9 is partnered with chromosome 22 in the translocation leading to the aberrant production of BCR-ABL fusion protein often found in leukemias. The C9orf98 gene maps to human chromosome 9q34.13. Consisting of 479 amino acids, C9orf98 exists as two alternatively spliced isoforms and belongs to the adenylate kinase family.

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CHROMOSOMAL LOCATION

Genetic locus: AK8 (human) mapping to 9q34.13.

SOURCE

AK8 (4B6) is a mouse monoclonal antibody raised against recombinant AK8 protein of human origin.

PRODUCT

Each vial contains 100 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

AK8 (4B6) is recommended for detection of AK8 of 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 AK8 siRNA (h): sc-92699, AK8 shRNA Plasmid (h): sc-92699-SH and AK8 shRNA (h) Lentiviral Particles: sc-92699-V.

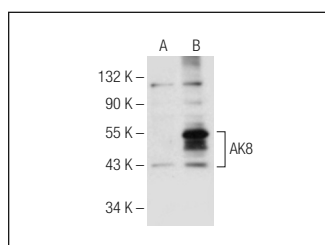
Molecular Weight of AK8: 55 kDa.

Positive Controls: AK8 (h): 293T Lysate: sc-370494.

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

DATA



AK8 (4B6): sc-134291. Western blot analysis of AK8 expression in non-transfected: sc-117752 (A) and human AK8 transfected: sc-370494 (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.