

# apoL-VI (H-110): sc-134877

## BACKGROUND

The apolipoprotein L gene family maps to a region on chromosome 22 and encodes six highly homologous proteins, designated apoL-I, apoL-II, apoL-III, apoL-IV, apoL-V and apoL-VI, all of which function as components of plasma lipoproteins. ApoL-VI (Apolipoprotein L-VI), also known as APOL6, is a 343 amino acid protein that localizes to the cytoplasm and belongs to the apolipoprotein L family. Expressed in a variety of tissues, including liver, heart, uterus, spleen, colon, spinal cord, placenta, prostate and mammary gland, apoL-VI is thought to affect the movement of lipids in the cytoplasm and may allow the binding of lipids to organelles. Overproduction of apoL-VI induces apoptosis, suggesting that apoL-VI may also be involved in tumor progression. Like other members of the apolipoprotein L family, apoL-VI is thought to be involved in the development of schizophrenia.

## REFERENCES

1. Dunham, I., et al. 1999. The DNA sequence of human chromosome 22. *Nature* 402: 489-495.
2. Page, N.M., et al. 2001. The human apolipoprotein L gene cluster: identification, classification, and sites of distribution. *Genomics* 74: 71-78.
3. Monajemi, H., et al. 2002. The apolipoprotein L gene cluster has emerged recently in evolution and is expressed in human vascular tissue. *Genomics* 79: 539-546.
4. Mimmack, M.L., et al. 2002. Gene expression analysis in schizophrenia: reproducible upregulation of several members of the apolipoprotein L family located in a high-susceptibility locus for schizophrenia on chromosome 22. *Proc. Natl. Acad. Sci. USA* 99: 4680-4685.
5. Online Mendelian Inheritance in Man, OMIM<sup>™</sup>. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 607256: World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
6. Liu, Z., et al. 2005. Apolipoprotein I6, a novel proapoptotic Bcl-2 homology 3-only protein, induces mitochondria-mediated apoptosis in cancer cells. *Mol. Cancer Res.* 3: 21-31.
7. Liu, Y.L., et al. 2008. RASD2, MYH9, and CACNG2 genes at chromosome 22q12 associated with the subgroup of schizophrenia with non-deficit in sustained attention and executive function. *Biol. Psychiatry* 64: 789-796.

## CHROMOSOMAL LOCATION

Genetic locus: APOL6 (human) mapping to 22q12.3.

## SOURCE

apoL-VI (H-110) is a rabbit polyclonal antibody raised against amino acids 111-220 mapping within an internal region of apoL-VI 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.

## RESEARCH USE

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

## APPLICATIONS

apoL-VI (H-110) is recommended for detection of apoL-VI 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)], 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).

Suitable for use as control antibody for apoL-VI siRNA (h): sc-72522, apoL-VI shRNA Plasmid (h): sc-72522-SH and apoL-VI shRNA (h) Lentiviral Particles: sc-72522-V.

Molecular Weight of apoL-VI: 38 kDa.

Positive Controls: JAR cell lysate: sc-2276.

## 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<sup>™</sup> compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker<sup>™</sup> 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<sup>™</sup> Mounting Medium: sc-24941.

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.