

# Angptl5 (7-RE8): sc-134258

## BACKGROUND

Angptl5 (angiopoietin-like 5) is a 388 amino acid secreted protein that contains one fibrinogen C-terminal domain and is primarily expressed in adult heart tissue. The gene encoding Angptl5 maps to human chromosome 11. With approximately 135 million base pairs and 1,400 genes, chromosome 11 comprises approximately 4% of human genomic DNA and is considered a gene and disease association dense chromosome. The chromosome 11 encoded ATM gene is important for regulation of cell cycle arrest and apoptosis following double strand DNA breaks. ATM mutation leads to the disorder known as ataxia-telangiectasia. The blood disorders Sickle cell anemia and thalassemia are caused by HBB gene mutations, while Wilms' tumors, WAGR syndrome and Denys-Drash syndrome are associated with mutations of the WT1 gene. Jervell and Lange-Nielsen syndrome, Jacobsen syndrome, Niemann-Pick disease, hereditary angioedema and Smith-Lemli-Opitz syndrome are also associated with defects in chromosome 11-encoded genes.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: ANGPTL5 (human) mapping to 11q22.1.

## SOURCE

Angptl5 (7-RE8) is a mouse monoclonal antibody raised against recombinant Angptl5 protein of human origin.

## PRODUCT

Each vial contains 50  $\mu$ g IgG<sub>2a</sub> kappa light chain in 0.5 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

Angptl5 (7-RE8) is recommended for detection of Angptl5 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g 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 Angptl5 siRNA (h): sc-96924, Angptl5 shRNA Plasmid (h): sc-96924-SH and Angptl5 shRNA (h) Lentiviral Particles: sc-96924-V.

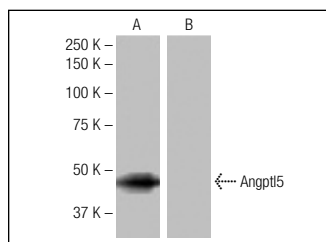
Molecular Weight of Angptl5: 44 kDa.

Positive Controls: Angptl5 transfected 293T whole cell lysate.

## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG $\kappa$  BP-HRP: sc-516102 or m-IgG $\kappa$  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



Angptl5 (7-RE8): sc-134258. Western blot analysis of Angptl5 expression in human Angptl5 transfected (A) and non-transfected (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.