# ASPG (E-18): sc-245008



The Power to Question

### **BACKGROUND**

ASPG (asparaginase homolog), also known as 60 kDa lysophospholipase, is a 567 amino acid phosphoprotein that contains 5 ANK repeats and belongs to the asparaginase 1 family. A monomer, ASPG is conserved in chimpanzee, bovine, mouse and rat. Highly expressed in liver and kidney, but minimally in lung and heart, ASPG exists as two alternatively spliced isoforms. ASPG participates in asparaginase, transacylase, platelet-activating factor acetylhydrolase, lysophospholipase and 1-alkyl-2-acetylglycerophosphocholine esterase activities. ASPG is encoded by a gene that maps to human chromosome 14q32.33. Chromosome 14 contains approximately 700 genes and 106 million base pairs, and makes up 3.5% of human cellular DNA. Chromosome 14 is linked to Alzheimer's disease,  $\alpha$ 1-antitrypsin deficiency and various B cell malignancies.

## **REFERENCES**

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## **CHROMOSOMAL LOCATION**

Genetic locus: ASPG (human) mapping to 14q32.33; Aspg (mouse) mapping to 12 F1.

### **SOURCE**

ASPG (E-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ASPG of human origin.

#### **PRODUCT**

Each vial contains 200  $\mu g$  IgG in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-245008 P, ( $100 \mu g$  peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### **APPLICATIONS**

ASPG (E-18) is recommended for detection of ASPG of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

ASPG (E-18) is also recommended for detection of ASPG in additional species, including bovine.

Suitable for use as control antibody for ASPG siRNA (h): sc-92274, ASPG siRNA (m): sc-140653, ASPG shRNA Plasmid (h): sc-92274-SH, ASPG shRNA Plasmid (m): sc-140653-SH, ASPG shRNA (h) Lentiviral Particles: sc-92274-V and ASPG shRNA (m) Lentiviral Particles: sc-140653-V.

Molecular Weight of ASPG isoforms 1/2: 60/63 kDa.

## **RECOMMENDED SECONDARY REAGENTS**

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ 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.

#### **RESEARCH USE**

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

# **PROTOCOLS**

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

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