

# Ly6G6d (D-14): sc-168506

## BACKGROUND

Members of the Lymphocyte Antigen 6 superfamily are cysteine-rich and are usually GPI-anchored cell surface proteins having immunologic roles. Most hematopoietic cells express one or more members of the Ly-6 superfamily. Well-studied members of this family include CD59, an inhibitor of the complement cascade, uPAR, which is involved in proteolysis of extracellular matrix proteins, and Lynx-1, a modulator of nicotinic acetylcholine receptors. Ly6G6d (Lymphocyte antigen 6 complex locus protein G6d), also known as Megakaryocyte-enhanced gene transcript 1 protein, is a 133 amino acid membrane protein that contains one UPAR/Ly6 domain, which is about 80 proteins long and has a conserved pattern of eight to ten cysteine residues. Ly6G6d is expressed in fetal lung, brain, spleen and kidney, as well as adult lung. The gene encoding Ly6G6d maps within the human major histocompatibility complex class III region on chromosome 6p21.33.

## REFERENCES

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3. Mallya, M., Campbell, R.D. and Aguado, B. 2002. Transcriptional analysis of a novel cluster of LY-6 family members in the human and mouse major histocompatibility complex: five genes with many splice forms. *Genomics* 80: 113-123.
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## CHROMOSOMAL LOCATION

Genetic locus: LY6G6D (human) mapping to 6p21.33.

## RESEARCH USE

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

## SOURCE

Ly6G6d (D-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Ly6G6d 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.

Blocking peptide available for competition studies, sc-168506 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

Ly6G6d (D-14) is recommended for detection of Ly6G6d of 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); non cross-reactive with Ly6G6c or Ly6G6e.

Suitable for use as control antibody for Ly6G6d siRNA (h): sc-95424, Ly6G6d shRNA Plasmid (h): sc-95424-SH and Ly6G6d shRNA (h) Lentiviral Particles: sc-95424-V.

Molecular Weight of Ly6G6d: 14 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<sup>™</sup> compatible donkey anti-goat IgG-HRP: sc-2033 (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) 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<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.