

# IgA<sub>2</sub> (14AS): sc-51992

## BACKGROUND

Immunoglobulins are termed constant regions (C regions) and are present in both the heavy and light chains. The heavy and light chains of Immunoglobulin A<sub>2</sub> (IgA<sub>2</sub>) are linked with noncovalent bonds. IgA<sub>2</sub> is made by B cells located in the mucosae and has been found to secrete into, colostrum, maternal milk, tears and saliva. With few exceptions, the sites of attachment for carbohydrates to immunoglobulin are located in the C regions. These regions also serve to hold the variable regions together using the disulfide bond between them. The C regions facilitate interaction with the antigen and increase the maximum rotation of the arms. Research indicates that mesangial deposits of IgA<sub>2</sub> may activate the lectin pathway in patients with IgA (immunoglobulin A) GN (glomerulonephritis).

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: IGHA2 (human) mapping to 14p13.

## SOURCE

IgA<sub>2</sub> (14AS) is a mouse monoclonal antibody raised against IgA<sub>2</sub> of human origin.

## PRODUCT

Each vial contains 100 µg IgG<sub>1</sub> in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

IgA<sub>2</sub> (14AS) is recommended for detection of Fc-region of IgA<sub>2</sub> of human origin by solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

## 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](http://www.scbt.com) for detailed protocols and support products.