

IgA₁ (h): 293T Lysate: sc-111633

BACKGROUND

IgA₁ (immunoglobulin A₁) antibodies are the first line of defense against microbial pathogens. IgA₁ proteases are characterized by a polyprotein precursor molecule with four separate domains, including an N-terminal signal peptide sequence, a surface-directed mature protease domain, a variable region and a membrane-embedded C-terminal region that forms a β -barrel in the outer membrane through which the mature protein is exported. The regions of relatively constant sequence beyond the variable regions of immunoglobulins are termed constant regions (C regions) and are present in both the heavy and light chains. 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, facilitate interaction with the antigen and increase the maximum rotation of the arms.

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CHROMOSOMAL LOCATION

Genetic locus: IGHA1 (human) mapping to 14p13.

PRODUCT

IgA₁ (h): 293T Lysate represents a lysate of human IgA₁ transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

IgA₁ (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive IgA₁ antibodies. Recommended use: 10-20 μ l per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. 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 for detailed protocols and support products.