BACKGROUND

The basic structural unit of most mammalian antibodies is a glycoprotein composed of four polypeptide chains—two light chains and two heavy chains, which are connected by disulfide bonds. Each light chain is composed of two domains, one variable domain (VL) and one constant domain (CL). The variable region genes encoding immunoglobulin κ and λ chains are assembled from three DNA segments, the V, C and J genes. Human κ light chain genes map to chromosome 2 and the human λ light chain genes map to chromosome 22. κ gene recombination can precede λ gene recombination during B cell ontogeny and only a single light chain type is expressed in individual B cells.

REFERENCES


SOURCE

IgG light chain (SB62a) is a mouse monoclonal antibody raised against light chain of rabbit origin.

PRODUCT

Each vial contains 100 µg IgG2κ in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

IgG light chain (SB62a) is recommended for detection of IgG light chain of rabbit origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000). Molecular Weight of IgG light chain: 25 kDa.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

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 for detailed protocols and support products.

RESEARCH USE

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