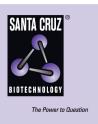
SANTA CRUZ BIOTECHNOLOGY, INC.

Ig J chain (P-18): sc-34652



BACKGROUND

The regions of relatively constant sequence beyond the variable regions of immunoglobulin 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 constant region. The constant regions also serve to hold the variable regions on both heavy and light chain together by virtue of the disulfide bond between them. The immunoglobulin J chain (Ig J chain) is a linker protein for two monomer units of either immunoglobulin α (IgA) or μ (IgM) polypeptides. For IgA the J chained-joined dimer induces larger polymers whereas for the IgM pentamer it functions as a nucleating unit. The Ig J chain is also important in binding these immunoglobulins to secretory components.

CHROMOSOMAL LOCATION

Genetic locus: IGJ (human) mapping to 4q13.3; Igj (mouse) mapping to 5 E1.

SOURCE

Ig J chain (P-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Ig J chain of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-34652 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, **D0 NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

Ig J chain (P-18) is recommended for detection of Ig J chain of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], 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).

Ig J chain (P-18) is also recommended for detection of Ig J chain in additional species, including canine.

Suitable for use as control antibody for Ig J chain siRNA (h): sc-45773, Ig J chain siRNA (m): sc-45774, Ig J chain shRNA Plasmid (h): sc-45773-SH, Ig J chain shRNA Plasmid (m): sc-45774-SH, Ig J chain shRNA (h) Lentiviral Particles: sc-45773-V and Ig J chain shRNA (m) Lentiviral Particles: sc-45774-V.

Molecular Weight (predicted) of Ig J chain: 18 kDa.

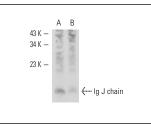
Molecular Weight (observed) of Ig J chain: 18-26 kDa.

Positive Controls: mouse spleen extract: sc-2391 or mouse liver extract: sc-2256.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



Ig J chain (P-18): sc-34652. Western blot analysis of Ig J chain expression in mouse spleen (A) and mouse

Ig J chain expression in mouse spleen (A) and mouse liver (B) tissue extracts.

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.

MONOS Satisfation Guaranteed

Try Ig J chain (B-6): sc-271967 or Ig J chain (F-12): sc-133177, our highly recommended monoclonal alternatives to Ig J chain (P-18).