BACKGROUND

In rats, four types of kininogens are produced, two of which are classical high and low molecular weight kininogens and two of which are low molecular weight-like kininogens, designated T-kininogen 1 and T-kininogen 2. T-kininogen 1 and T-kininogen 2 are 430 amino acid secreted rat proteins that each contain three cystatin domains and have nearly identical functions. Existing in plasma, both T-kininogen 1 and T-kininogen 2 are glycoproteins that act as thiol protease inhibitors and also play a role in blood coagulation, specifically by helping to optimally position blood coagulation factors. Additionally, T-kininogen 1 and T-kininogen 2 act as precursors of the active peptide Bradykinin and, as such, effect vascular permeability, hypotension and smooth muscle contraction.

REFERENCES


SOURCE

T-kininogen 1/2 (F-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of T-kininogen 2 of rat 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-103886 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

T-kininogen 1/2 (F-12) is recommended for detection of full length and heavy chain of T-kininogen 1 and 2 of rat 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 family member Kininogen.

Molecular Weight of T-kininogen 1: 48 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™ 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) 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.

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 or our catalog for detailed protocols and support products.