

HYAL4 (Y-18): sc-49216

BACKGROUND

Hyaluronidases (HAases or HYAL) are a family of lysosomal enzymes that are crucial for the spread of bacterial infections, toxins present in various venoms and, possibly, cancer. In humans, six HYAL proteins have been identified. HYAL proteins use hydrolysis to degrade hyaluronic acid (HA), which is present in body fluids, tissues and the extracellular matrix of vertebrate tissues. HA keeps tissues hydrated, maintains osmotic balance and promotes cell proliferation, differentiation and metastasis. HA is also an important structural component of cartilage and acts as a lubricant in joints. HYAL4 is differentially expressed in placenta and skeletal muscle and contains an N-glycosylation site with tripeptide patterns. HYAL4 may form a complex with HYALP1, HYAL5 and Ph-20.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: HYAL4 (human) mapping to 7q31.32.

RESEARCH USE

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

SOURCE

HYAL4 (Y-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of HYAL4 of human 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-49216 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

HYAL4 (Y-18) is recommended for detection of HYAL4 of human 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).

HYAL4 (Y-18) is also recommended for detection of HYAL4 in additional species, including canine and porcine.

Suitable for use as control antibody for HYAL4 siRNA (h): sc-60828, HYAL4 shRNA Plasmid (h): sc-60828-SH and HYAL4 shRNA (h) Lentiviral Particles: sc-60828-V.

Molecular Weight of HYAL4: 54 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.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.