FAP α (C-19): sc-54539



The Power to Question

BACKGROUND

FAP α , or Seprase, is a 760 amino acid protein encoded by the human gene FAP and belongs to the peptidase S9B family. FAP α may have a role in tissue remodeling during development and wound healing so it is possible FAP α may contribute to invasiveness of malignant cancers. It degrades gelatin and heat-denatured type I and type IV collagen, but not native type I or type IV collagen. It also does not cleave Laminin, Fibronectin, fibrin or casein. FAP α is a single-pass type II membrane protein found on cell surface lamellipodia, invadopodia and on shed vesicles. FAP α is usually found as a glycosylated homodimer, or heterodimer with DPP4. The FAP α monomer is an inactive form.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: FAP (human) mapping to 2q24.2.

SOURCE

FAP α (C-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of FAP α 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-54539 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

FAP α (C-19) is recommended for detection of FAP α 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).

 $FAP\alpha$ (C-19) is also recommended for detection of $FAP\alpha$ in additional species, including equine, bovine and porcine.

Suitable for use as control antibody for FAP α siRNA (h): sc-62292, FAP α shRNA Plasmid (h): sc-62292-SH and FAP α shRNA (h) Lentiviral Particles: sc-62292-V.

Molecular Weight of FAPα: 88 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227.

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.



Try **FAP\alpha (SS-13):** sc-100528, our highly recommended monoclonal aternative to FAP α (C-19).

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