

USP26 (S-17): sc-51011

BACKGROUND

Ubiquitin specific peptidase 26 (USP26) is a deubiquitinating enzyme that is a member of the peptidase C19 family and contains Cys and His domains and one UBP-type zinc finger. USP26 plays a role in negative regulation of gluconeogenesis and is required for proteasome-dependent catabolite degradation of fructose-1,6-bisphosphate. It is involved with the 26S Proteasome in the ubiquitin-dependent proteolytic pathway. USP26 accelerates proteasomal breakdown of ubiquitinated proteins, while disassembling free ubiquitin chains. The catalytic activity of USP26 involves the combination of the ubiquitin carboxyl-terminal thiolester and water to produce ubiquitin and a thiol. USP26 is likely located in the cytoplasm and is specifically expressed in testis tissue. The gene maps to the X chromosome. Alterations in the gene are associated with Sertoli cell-only syndrome and male infertility.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: USP26 (human) mapping to Xq26.2.

SOURCE

USP26 (S-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of USP26 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-51011 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

USP26 (S-17) is recommended for detection of Ubiquitin-specific Processing Protease 26 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).

Suitable for use as control antibody for USP26 siRNA (h): sc-61763, USP26 shRNA Plasmid (h): sc-61763-SH and USP26 shRNA (h) Lentiviral Particles: sc-61763-V.

Molecular Weight observed of USP26: 83 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.