

USP19 (V-14): sc-99715

BACKGROUND

The ubiquitin (Ub) pathway involves three sequential enzymatic steps that facilitate the conjugation of Ub and Ub-like molecules to specific protein substrates. Through the use of a wide range of enzymes that can add or remove ubiquitin, the Ub pathway controls many intracellular processes such as signal transduction, transcriptional activation and cell cycle progression. Ubiquitin-specific-processing protease 19 (USP19), also known as ubiquitin carboxyl-terminal hydrolase 19, ubiquitin thioesterase 19 and deubiquitinating enzyme 19, is a 1318 amino acid member of the peptidase C19 family of proteins. USP19 is thought to be involved in the ubiquitin-dependent proteolytic pathway in conjunction with the 26S proteasome. Four known isoforms of USP19 exist as a result of alternative splicing events.

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RESEARCH USE

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

CHROMOSOMAL LOCATION

Genetic locus: USP19 (human) mapping to 3p21.31; Usp19 (mouse) mapping to 9 F2.

SOURCE

USP19 (V-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of USP19 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-99715 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

USP19 (V-14) is recommended for detection of USP19 of mouse, rat and 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); non cross-reactive with other USP family members.

USP19 (V-14) is also recommended for detection of USP19 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for USP19 siRNA (h): sc-78424, USP19 siRNA (m): sc-154944, USP19 shRNA Plasmid (h): sc-78424-SH, USP19 shRNA Plasmid (m): sc-154944-SH, USP19 shRNA (h) Lentiviral Particles: sc-78424-V and USP19 shRNA (m) Lentiviral Particles: sc-154944-V.

Molecular Weight of USP19: 146 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.