

USP6/32 (H-300): sc-98889

BACKGROUND

Ubiquitin-specific protease (USP6) is a 1,406 amino acid protein that is very hydrophilic and has 2 charge clusters that are characteristic of nucleic acid-binding regions. The USP6 gene is oncogenic and originated from the chimeric fusion of two genes: USP32 and TBC1D3. USP32 is an ancient, highly conserved gene, whereas the TBC1D3 gene came from a relatively recent segmental duplication. This duplication is absent in most other mammals and shows rapid amplification and propagation throughout the primate lineage. The chimeric USP6, however, only exists in the hominoid lineage of primates, so it may have contributed to hominoid speciation. USP6 is testis-specific, suggesting an implication in the emergence of reproductive barriers.

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CHROMOSOMAL LOCATION

Genetic locus: USP6 (human) mapping to 17p13.2, USP32 (human) mapping to 17q23.1; Usp32 (mouse) mapping to 11 C.

SOURCE

USP6/32 (H-300) is a rabbit polyclonal antibody raised against amino acids 1117-1406 mapping at the C-terminus of USP6 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.

APPLICATIONS

USP6/32 (H-300) is recommended for detection of USP6 isoforms 1 and 2 of human origin and USP32 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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).

USP6/32 (H-300) is also recommended for detection of USP6 isoforms 1 and 2 and USP32 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for USP32 siRNA (m): sc-106679, USP32 shRNA Plasmid (m): sc-106679-SH and USP32 shRNA (m) Lentiviral Particles: sc-106679-V.

Molecular Weight of USP6: 159 kDa.

Molecular Weight of USP32: 182 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker[™] compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (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.

MONOS
Satisfaction
Guaranteed

Try **USP6/32 (D-11): sc-377306** or **USP32 (A-10): sc-374465**, our highly recommended monoclonal alternatives to USP6/32 (H-300).