

# USP6 (N-18): sc-48695

## 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.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: USP6 (human) mapping to 17p13.2.

## SOURCE

USP6 (N-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of USP6 of human origin.

## RESEARCH USE

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

## 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-48695 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

USP6 (N-18) is recommended for detection of USP6 isoforms 1 and 3 of 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).

Suitable for use as control antibody for USP6 siRNA (h): sc-61765, USP6 shRNA Plasmid (h): sc-61765-SH and USP6 shRNA (h) Lentiviral Particles: sc-61765-V.

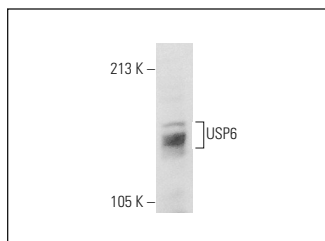
Molecular Weight of USP6: 159 kDa.

Positive Controls: IMR-32 cell lysate: sc-2409.

## 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<sup>™</sup> compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker<sup>™</sup> 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 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<sup>™</sup> Mounting Medium: sc-24941.

## DATA



USP6 (N-18): sc-48695. Western blot analysis of USP6 expression in IMR-32 whole cell lysate.

## 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](http://www.scbt.com) or our catalog for detailed protocols and support products.