

USP11 (H-80): sc-134928

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. USP11 (ubiquitin specific peptidase 11), also known as UHX1, is a 920 amino acid deubiquitinating enzyme that participates in the Ub pathway. Localized to the nucleus, USP11 associates with both Ran BP-M (Ran binding protein-M) and with the tumor suppressor BRCA2. Through these associations, USP11 functions to either inhibit ubiquitination of these proteins or to remove ubiquitin residues that have already been attached to these proteins. USP11 is implicated in several X-linked retinal diseases and, due to its ability to deubiquitinate BRCA2, may play a role in tumor suppression.

CHROMOSOMAL LOCATION

Genetic locus: USP11 (human) mapping to Xp11.23; Usp11 (mouse) mapping to X A1.3.

SOURCE

USP11 (H-80) is a rabbit polyclonal antibody raised against amino acids 661-740 mapping within an internal region of USP11 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.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

USP11 (H-80) is recommended for detection of USP11 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).

USP11 (H-80) is also recommended for detection of USP11 in additional species, including equine, canine and porcine.

Suitable for use as control antibody for USP11 siRNA (h): sc-63193, USP11 siRNA (m): sc-63194, USP11 shRNA Plasmid (h): sc-63193-SH, USP11 shRNA Plasmid (m): sc-63194-SH, USP11 shRNA (h) Lentiviral Particles: sc-63193-V and USP11 shRNA (m) Lentiviral Particles: sc-63194-V.

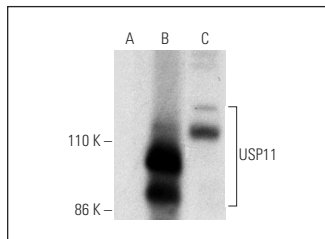
Molecular Weight of USP11: 110 kDa.

Positive Controls: USP11 (m): 293T Lysate: sc-124490 or Jurkat whole cell lysate: sc-2204.

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.

DATA



USP11 (H-80): sc-134928. Western blot analysis of USP11 expression in non-transfected 293T: sc-117752 (A), mouse USP11 transfected 293T: sc-124490 (B) and Jurkat (C) whole cell lysates.

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.


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Try **USP11 (C-6): sc-365528**, our highly recommended monoclonal alternative to USP11 (H-80).