# Ubr1 (yS-15): sc-26145



The Power to Question

#### **BACKGROUND**

Ubiquitin, an abundant, highly conserved protein found in all eukaryotic cells, exists as either a free form or covalently attached to cellular proteins. Ubiquitin functions to clear abnormal, foreign and improperly folded proteins from eukaryotic cells by targeting them to the 26S proteasome for degradation. In *Saccharomyces cerevisiae*, Ubr1, an E3 component of the E3-E2 ubiquitin ligases, participates in the N-end rule pathway, which relates the *in vivo* half-life of a protein to the identity of its N-terminal residue. It delivers ubiquitinated proteins to the 26S proteasome by directly interacting with the 19S particle, which mediates the entry of substrates into the 20S core protease. Ubr1 (225 kDa) physically associates with Ubc2 (20 kDa), an essential protein for multiubiquitination and degradation of N-end rule substrates, to participate in DNA repair, induced mutagenesis, sporulation and regulation of retrotransposition.

## **REFERENCES**

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# **SOURCE**

Ubr1 (yS-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Ubr1 of *Saccharomyces cerevisiae* origin.

#### **PRODUCT**

Each vial contains 200  $\mu g$  lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-26145 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

#### **STORAGE**

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

#### **APPLICATIONS**

Ubr1 (yS-15) is recommended for detection of Ubr1 of yeast origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Molecular Weight of Ubr1: 230 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.

#### **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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