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### Product no AS09 574

## Anti-Rnr3 | Ribonucleoside-diphosphate reductase large chain 2

#### **Product information**

Immunogen KLH-conjugated synthetic peptide derived from Saccharomyces cerevisiae Rnr3 protein sequence UniProt: P21672

Host Rabbit

Clonality Polyclonal

**Purity** Immunogen affinity purified serum in PBS pH 7.4.

Format Lyophilized

Quantity 100 μg

**Reconstitution** For reconstitution add 100 μl of sterile water

Storage Storage Store lyophilized/reconstituted at -20°C; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please remember to spin the tubes briefly prior to opening them to avoid any losses that might occur from material adhering to

the cap or sides of the tube.

# **Application information**

Recommended dilution 1:500-1:1000 (WB)

Expected | apparent

97.5 | 98 kDa

Confirmed reactivity Saccharomyces cerevisiae

Predicted reactivity Saccharomyces cerevisiae

Not reactive in No confirmed exceptions from predicted reactivity are currently known

**Additional information** Load per well was approx 3x10^6 cells (of a total extract)

Selected references

Ajazi et al. (2021) Endosomal trafficking and DNA damage checkpoint kinases dictate survival to replication stress by regulating amino acid uptake and protein synthesis. Dev Cell. 2021 Sep 27;56(18):2607-2622.e6. doi:

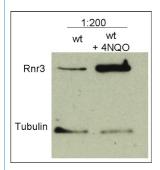
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<u>Cerritelli</u> et al. (2020). High density of unrepaired genomic ribonucleotides leads to Topoisomerase 1-mediated severe growth defects in absence of ribonucleotide reductase. Nucleic Acids Res

<u>Sampaio-Marques</u> et al. (2019). ?-Synuclein toxicity in yeast and human cells is caused by cell cycle re-entry and autophagy degradation of ribonucleotide reductase 1. Aging Cell. 2019 Aug;18(4):e12922. doi: 10.1111/acel.12922. <u>Schmidt</u> et al. (2019). Inactivation of folylpolyglutamate synthetase Met7 results in genome instability driven by an increased dUTP/dTTP ratio. Nucleic Acids Res. 2019 Oct 24. pii: gkz1006. doi: 10.1093/nar/gkz1006.

<u>Lafuente-Barquero</u> et al. (2017). The Smc5/6 complex regulates the yeast Mph1 helicase at RNA-DNA hybrid-mediated DNA damage. PLOS Genetics, December 27, 2017, doi.org/10.1371/journal.pgen.1007136

#### **Application example**



10 μI total protein from 9.25 x 107 cells of *Saccharomyces cerevisiae* extracted with 20% TCA as described below were separated on 10% SDS-PAGE and blotted 1.5h (0.5 A) to a nitrocellulose membrane (Whatman PROTRAN BA 85, 0.45 μm). Blots were blocked with 5% non-fat dry milk in TBST for 1.5h at room temperature (RT) with agitation. Blot was incubated in the primary antibody at a dilution of 1: 200 overnight at 4C° with agitation. The antibody solution was decanted and the blot was washed 3 times for 10 min in TBST at RT with agitation. Blot was incubated in secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated, (AS09 602) diluted to 1:50 000 for 1h at RT with agitation. The blot was washed as above and developed for 3 min with chemiluminescent detection reagent, according to the manufacturers instructions. Exposure time was 10 min.

Courtesy Dr. Andrei Chabes, Umeå University, Sweden