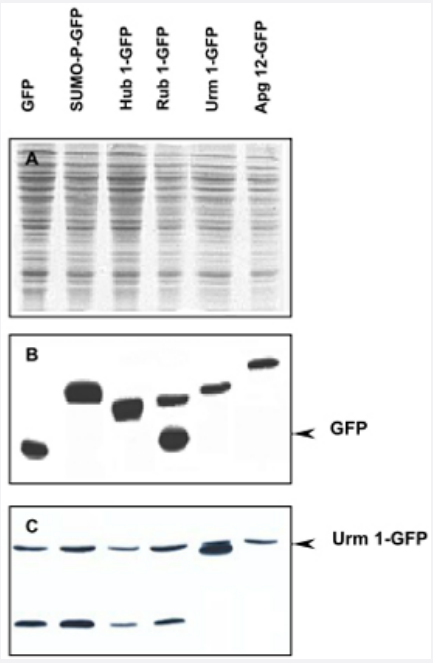
URM1 polyclonal antibody

Catalog # PAB11366 Size 500 ug

Applications



Western Blot (Recombinant protein)

Immunoblot of Urm1 fusion protein.
URM1 polyclonal antibody (Cat # PAB11366) generated by immunization with recombinant yeast URM1 was tested by immunoblot against yeast lysates expressing the URM1-GFP fusion protein and other UBL fusion proteins.
All UBLs possess limited homology to Ubiquitin and to each other, therefore it is important to know the degree of reactivity of each antibody against each UBL.
Panel A shows total protein staining using ponceau.
Panel B shows positions of free GFP or GFP containing recombinant proteins present in each lysate preparation after reaction with a 1:1,000 dilution of anti-GFP followed by reaction with a 1:15,000 dilution of HRP Donkey-a-Goat IgG MX.
Panel C shows specific reaction with URM1 using a 1:1,000 dilution of URM1 polyclonal antibody (Cat # PAB11366) (Yeast) followed by reaction with a 1:15,000 dilution of HRP Goat-a-Rabbit IgG MX.
All primary antibodies were diluted in TTBS buffer supplemented with 5% non-fat milk and incubated with the membranes overnight at 4°C.
Yeast lysate proteins were separated by SDS-PAGE using a 15% gel. This data indicates that anti-URM1 is highly specificand does not cross react with other UBLs.
Bands present in Panel C indicate that URM1 and conjugated URM1 is present in most yeast cell lysates albeit at significantly reduced levels relative to the URM1-GFP transfected lysate.
A chemiluminescence system was used for signal detection (Roche) .
Data contributed by M. Malakhov, www.lifesensors.com, personal communication.

Specification

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Product Description	Rabbit polyclonal antibody raised against recombinant URM1.
Immunogen	Recombinant protein corresponding to Saccharomyces cerevisiae URM1.
Host	Rabbit
Reactivity	Yeast
Form	Lyophilized
Quality Control Testing	Antibody Reactive Against Recombinant Protein.
Recommend Usage	ELISA (1:2000-1:10000) Western Blot (1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from 20 mM potassium phosphate buffer, 150 mM NaCl, pH 7.2 (0.01% sodium azide)
Storage Instruction	Store at 4°C on dry atmosphere. After reconstitution with deionized water, store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Enzyme-linked Immunoabsorbent Assay

- Western Blot (Recombinant protein)

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Gene Info — URM1

Entrez GeneID	854809
Gene Name	URM1
Gene Alias	-
Gene Description	Ubiquitin-like protein with weak sequence similarity to ubiquitin; depends on the E1-like activating enzyme Uba4p; molecular function of the Urm1p pathway is unknown, but it is required for normal growth, particularly at high temperature
Gene Ontology	Hyperlink
Gene Summary	-
Other Designations	Urm1p

Publication Reference

- Molecular dissection of autophagy: two ubiquitin-like systems.

  Ohsumi Y.

  Molecular and Cellular Biology 2001 Mar; 2(3):211.

  Application: WB-Tr, Yeast, Yeast cells

- Evolution and function of ubiquitin-like protein-conjugation systems.

  Hochstrasser M.

  Nature Cell Biology 2000 Aug; 2(8):E153.

- A protein conjugation system in yeast with homology to biosynthetic enzyme reaction of prokaryotes.

  Furukawa K, Mizushima N, Noda T, Ohsumi Y.

  The Journal of Biological Chemistry 2000 Mar; 275(11):7462.

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