

Protein Folding and Stability Antibody Sampler Kit

Cat# AK0253

Upon receipt, store at -20°C. Avoid freeze/thaw cycles.

PRODUCT DESCRIPTION

The small regulatory protein ubiquitin is often covalently linked to many cellular proteins, labeling these targeted proteins for proteasome-mediated degradation. Ubiquitin is first activated by forming a thiolester complex with the E1 activation component. Activated ubiquitin is subsequently transferred to the ubiquitin-carrier protein E2, and then to an E3 ubiquitin ligase for final delivery to the ϵ -NH₂ of the target protein lysine residue. The ubiquitin-proteasome pathway has been implicated in a wide range of both normal biological processes and diseases. The ubiquitin-like protein family contains three small ubiquitin-related modifier proteins (SUMO-1, -2 and -3), neural precursor cell-expressed developmentally down-regulated protein 8 (NEDD8) and interferon-stimulated 15 kDa protein (ISG15). Their covalent attachment to target proteins is a reversible, multi-step process that is analogous to protein ubiquitination. Mature molecules are linked to the activating enzyme E1, conjugated to E2 and ligated to the target proteins by E3. Ubiquitin is the predominant regulator for the degradation of a wide range of target proteins while SUMO, NEDD8 and ISG15 modify a limited set of substrates to regulate various other biological processes. During ubiquitination, the combinatorial interaction of different E2 and E3 proteins produces variable substrate specificity. UBC3 and UBC3B are E2 ubiquitin-carrier proteins. The SCF (Skp1/CUL1/F-box) E3 ubiquitin ligase protein complex is composed of three protein components, including the S phase kinase associated protein 1 (Skp1), Cullin homolog 1 (CUL1) and the Skp2 F-box protein.

PRODUCT INCLUDES

Cat No.	Product name	Quantity	Applications	Reactivity	Host
A340671	SKP1 p19 Polyclonal Antibody	20 μ L	WB, IHC, ELISA	Human, Mouse, Rat, Monkey	Rabbit
A340672	SKP2 p45 Polyclonal Antibody	20 μ L	WB, IHC, IF, ELISA	Human	Rabbit
A340603	NEDD8 Polyclonal Antibody	20 μ L	WB, IHC, ELISA	Human, Mouse, Rat, Monkey	Rabbit
A340695	Ub Polyclonal Antibody	20 μ L	WB, IHC, ELISA	Human, Mouse, Rat	Rabbit

A340711	CDC34 Polyclonal Antibody	20μL	WB, ELISA	Human, Mouse, Rat	Rabbit
A340119	SUMO2/3/4 Polyclonal Antibody	20μL	WB, IHC, ELISA	Human, Mouse	Rabbit
A340683	SUMO1 Polyclonal Antibody	20μL	WB, IHC, IF, ELISA	Human, Mouse, Rat	Rabbit
A1013s	Goat Anti-Rabbit IgG (H+L) (peroxidase/HRP conjugated)	120μL	WB, ELISA	Rabbit	Goat

PRODUCT USE LIMITATION

These products are intended for research use only.