10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Ubiquitin Antibody
Ubiquitin Antibody, Clone FK1
Catalog # ASM10653

Specification

Ubiquitin Antibody - Product Information

Primary Accession	P0CG47
Other Accession	BAC56955.1
Host	**Mouse**
Clonality	**Monoclonal**

Target/Specificity
Ubiquitin

Other Names
Polyubiquitin B Antibody, RPS27A Antibody, UBA52 Antibody, UBB Antibody, UBC Antibody, ubiquitin B Antibody

Immunogen
Human Ubiquitin conjugated lysozyme

Purification
Gel filtration

Storage	**-20ºC**

Storage Buffer
10mM phosphate buffer, 0.15M NaCl pH7.4, 0.1% sodium azide *Storage buffer may change when conjugated

Shipping Temperature	**Blue Ice or 4ºC**

Certificate of Analysis
A 1:5000 dilution of SMC-213 was sufficient for detection of ubiquitin conjugates in 2.5 µg of HeLa cell lysate by electrochemiluminescence analysis using goat anti-mouse IgG:HRP as the secondary antibody.

Cellular Localization
Cytoplasm | Nucleus

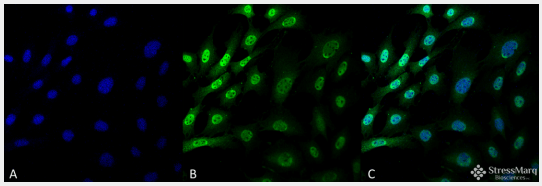
Ubiquitin Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

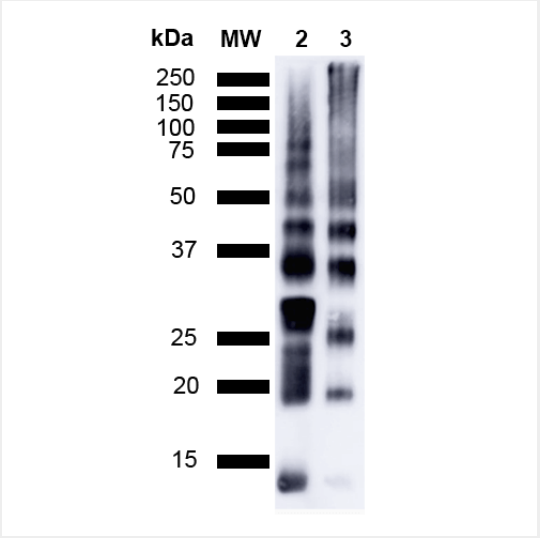
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Ubiquitin Antibody - Images



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Ubiquitin Monoclonal Antibody, Clone FK1 (ASM10653). Tissue: Fibroblast cell line (NIH 3T3). Species: Mouse. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-Ubiquitin Monoclonal Antibody (ASM10653) at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:100 for 60 min at RT. Counterstain: DAPI (blue) nuclear stain at 1:5000 for 5 min RT. Localization: Nucleus, Cytoplasm. Magnification: 60X.



Western Blot analysis of Poly-Ubiquitin showing detection of Ubiquitin protein using Mouse Anti-Ubiquitin Monoclonal Antibody, Clone FK1 (ASM10653). Lane 1: MW ladder. Lane 2: Poly-Ubiquitin, K48-linked (2 ug). Lane 2: Poly-Ubiquitin, K63-linked (0.6 ug). Load: 5 uL. Block: 1% BSA in TBST. Primary Antibody: Mouse Anti-Ubiquitin Monoclonal Antibody (ASM10653) at 1:1000 for 2 hours at RT with shaking. Secondary Antibody: Goat anti-mouse IgG:HRP at 1:2000 for 1 hour at RT with shaking. Color Development: Chemiluminescent for HRP (Moss) for 5 min in RT.

Ubiquitin Antibody - Background

Ubiquitin is a small protein found ubiquitously in all tissue types and acts as a post translational modification. It can bind to its substrate either as a single ubiquitin molecule or in a chain. It is involved in many regulatory processes, which include proteasomal degradation, signal transduction, DNA repair, endocytosis and autophagy.

Ubiquitin Antibody - References

1. Chen J., & Chen Z. (2013). Curr Opin Immunol. (1): 4-12.
2. Shaid S., Brandts C., Serve H., & Dikic I. (2013). Cell Death Differ. 20(1): 21-30.