SunLong Biotech Co.,LTD
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[Marker Primary Antibody]

Rabbit Anti-Ubiquitin/AF647 Conjugated antibody

Catalog Number: SL1549R-AF647

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-Ubiquitin/AF647
Immunogen:	KLH conjugated synthetic peptide derived from human Ubiquitin N-terminuse
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	Flow-Cyt=1ug/Test IF=1:100-500 ICC/IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse,Rat(predicted:Pig)
Background:	background: This gene encodes ubiquitin, one of the most conserved proteins known. Ubiquitin has a major role in targeting cellular proteins for degradation by the 26S proteosome. It is also involved in the maintenance of chromatin structure, the regulation of gene expression, and the stress response. Ubiquitin is synthesized as a precursor protein consisting of either polyubiquitin chains or a single ubiquitin moiety fused to an unrelated protein. This gene consists of three direct repeats of the ubiquitin coding sequence with no spacer sequence. Consequently, the protein is expressed as a polyubiquitin precursor with a final amino acid after the last repeat. An aberrant form of this protein has been detected in patients with Alzheimer's disease and Down syndrome. Pseudogenes of this gene are located on chromosomes 1, 2, 13, and 17. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2013]

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	Function: Ubiquitin exists either covalently attached to another protein, or free (unanchored). When covalently bound, it is conjugated to target proteins via an isopeptide bond either as a monomer (monoubiquitin), a polymer linked via different Lys residues of the ubiquitin (polyubiquitin chains) or a linear polymer linked via the initiator Met of the ubiquitin (linear polyubiquitin chains). Polyubiquitin chains, when attached to a target protein, have different functions depending on the Lys residue of the ubiquitin that is linked: Lys-6-linked may be involved in DNA repair; Lys-11-linked is involved in ERAD (endoplasmic reticulum-associated degradation) and in cell-cycle regulation; Lys-29-linked is involved in lysosomal degradation; Lys-33-linked is involved in kinase modification; Lys-48-linked is involved in protein degradation via the proteasome; Lys-63-linked is involved in endocytosis, DNA-damage responses as well as in signaling processes leading to activation of the transcription factor NF-kappa-B. Linear polymer chains formed via attachment by the initiator Met lead to cell signaling. Ubiquitin is usually conjugated to Lys residues of target proteins, however, in rare cases, conjugation to Cys or Ser residues has been observed. When polyubiquitin is free (unanchored-polyubiquitin), it also has distinct roles, such as in activation of protein kinases, and in signaling. **Subcellular Location:** Cytoplasm. Nucleus. **Similarity:** Belongs to the ubiquitin family. Contains 9 ubiquitin-like domains. **Database links:** **Entrez Gene:** 281370 Cow **Entrez Gene:** 100049794 Horse **Entrez Gene:** 7314 Human **Entrez Gene:** 22187 Mouse **Entrez Gene:** 192255 Rat Omim: 191339 Human **SwissProt:** P0CG53 Cow **SwissProt:** Q8MKD1 Horse **SwissProt:** P0CG47 Human **SwissProt:** P0CG48 Human **SwissProt:** P62988 Human **SwissProt:** P0CG49 Mouse **SwissProt:** P62991 Mouse **SwissProt:** P0CG51 Rat **SwissProt:** P62989 Rat **Unigene:** 356190 Human **Unigene:** 520348 Human

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	Unigene: 282093 Mouse **Unigene:** 371592 Mouse **Unigene:** 110618 Rat **Unigene:** 1253 Rat **Unigene:** 3761 Rat Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. Ubiquitin and ubiquitin-like proteins (Ubls) exist in various cells and have multiple cell-regulating functions, such as cell proliferation, apoptosis, cell cycle and DNA repair. However, abnormalities in the ubiquitin pathway can lead to the production of human diseases, including the occurrence of various forms of Tumour, nerve degeneration, etc., all of which are related to Ubiquitin. Related products: Ubiquitin 1-76 peptides (SL10803P);