

## Rabbit Anti-Ubiquitin/AF350 Conjugated antibody

SL1549R-AF350

<b>Product Name</b>	Anti-Ubiquitin/AF350
<b>Chinese Name</b>	AF350 标记的 Ubiquitin 蛋白抗体
<b>Alias</b>	FLJ25987; MGC8385; RPS27A; RPS 27A; UBA52; UBA 52; UBA80; UBA 80; UBB; UBC; UB; UBCEP1; UBCEP2; UBCEP 1; UBCEP 2; UBCEP-1; UBCEP-2; Ubiquitin; ubiquitin B; UBC_HUMAN; UBB_HUMAN; RS27A_HUMAN; HMG20; Ubiquitin carboxyl extension protein 80; Ubiquitin; Polyubiquitin-C; Polyubiquitin-B.
<b>Research Area</b>	Tumour Cell biology immunology Neurobiology Apoptosis Ubiquitin
<b>Immunogen Species</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>React Species</b>	Human,Mouse,Rat(predicted:Pig)
<b>Applications</b>	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.
<b>Molecular weight</b>	8.5kDa
<b>Form</b>	Lyophilized or Liquid
<b>Concentration</b>	1mg/ml
<b>immunogen</b>	KLH conjugated synthetic peptide derived from human Ubiquitin N-terminuse
<b>Lsotype</b>	IgG
<b>Purification</b>	affinity purified by Protein A
<b>Storage Buffer</b>	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol
<b>Storage</b>	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.
<b>Product Detail</b>	<b>background:</b> 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 proteasome. 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]

**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

[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 及类 Ubiquitin 蛋白(Ubls) 存在在多种细胞中, 有多种细胞调控的功能, 如细胞增殖、凋亡、细胞周期及 DNA 修复等。但 Ubiquitin 途径的异常会导致人类疾病的产生, 包括多种形式的 Tumour 的发生, 神经退变等都与 Ubiquitin 有关。



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相关产品:

Ubiquitin 1-76 peptides (SL10803P);