



Rabbit polyclonal antibody to Ubiquitin: Whole serum

Catalogue No.:	R-1405-50
Description:	Ubiquitin is a highly conserved 76 amino acid protein with an estimated molecular weight of 8.56 kDa which has a central role in regulated protein degradation. It is a protein modifier which can be covalently attached to target lysines either as a monomer or as a lysine-linked polymer. Several types of polymeric chains can be formed depending on the lysine used for the assembly. Attachment to proteins as a polymer leads to their degradation by the 26S proteasome; a complex, multicatalytic cytosolic and nuclear protease. Attachment to proteins as a monomer or as an alternatively linked polymer does not lead to proteasomal degradation and may be required for numerous functions, including maintenance of chromatic structure, regulation of gene expression, stress response, ribosome biogenesis and DNA repair. Ubiquitin is synthesized as a polyubiquitin precursor with exact head to tail repeats, the number of repeats of which differ between species and strains. In some species there is a final amino-acid after the last repeat, here in bovine a Cys. Some ubiquitin genes contain a single copy of ubiquitin fused to a ribosomal protein (either L40 or S27a).
Batch No.:	See product label
Unit size:	50 µl
Antigen:	Glutaraldehyde cross-linked ubiquitin.
Antibody Type:	Antiserum
Other Names:	RPS27A; UBA52; UBB; UBC; Polyubiquitin-B; Polyubiquitin-C;
Accession:	P0CG47 UBB_HUMAN;
Produced in:	Rabbit
Applications:	Western Blotting (WB) and Immunohistochemistry (IH). A dilution of 1:5,000 - 1:10,000 is recommended for WB. A dilution of 1:500-1,000 is recommended for IH. Biosensis recommends optimal dilutions/concentrations should be determined by the end user.
Specificity:	The specificity of this antibody has been confirmed by WB. This antibody detects ~8.5 kDa Ubiquitin.
Antibody Against:	Ubiquitin
Cross-reactivity:	Human. Predicted to react with other mammalian tissues.
Form:	Lyophilised
Appearance:	White powder
Reconstitution:	Reconstitute in sterile distilled water. Centrifuge to remove any insoluble material.
Storage:	After reconstitution of lyophilised antibody, aliquot and store at -20°C for a higher stability. Avoid freeze-thaw cycles.
Expiry Date:	12 months after purchase

FOR RESEARCH USE ONLY
