



Rabbit antibody to ubiquitin: IgG

Catalogue No.:	R-182-250
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:	250 ug
Antigen:	Ubiquitin isolated from cow erythrocytes and conjugated to chicken gammaglobulins with glutaraldehyde.
Other Names:	RPS27A; UBA52; UBB; UBC
Accession:	UBIQ_BOVIN
Produced in:	Rabbit
Purity:	Protein G purified immunoglobulin.
Applications:	This antibody is recommended for IHC, WB and immunoprecipitation. This antibody can be used for labelling formalin-fixed, paraffin-embedded tissue sections at a dilution range of 1:150 to 1:300. This antibody is also useful for investigating neurodegenerative diseases such as Alzheimer's disease and Parkinson's disease. Biosensis recommends optimal dilutions/concentrations should be determined by the end user.
Specificity:	The specificity of this antibody has been determined by indirect ELISA against ubiquitin conjugated to keyhole limpet haemocyanin. The antibody does not react with keyhole limpet haemocyanin alone. Specificity has also been demonstrated by WB against endometrial tissue homogenates.
Cross-reactivity:	Cross reacts with human, baboon and rat ubiquitin. Other species have not been tested.
Form:	Lyophilised from PBS, pH 7.2, 100mM NaCl, 15mM sodium azide.
Reconstitution:	Reconstitute in 100 uL of sterile water. Centrifuge to remove any insoluble material.
Storage:	After reconstitution keep aliquots at -20C for higher stability or at 2-8C with an appropriate antibacterial agent. Glycerol (1:1) may be added for additional stability. Avoid repetitive freeze/thaw cycles.
Expiry Date:	12 months after purchase

FOR RESEARCH USE ONLY



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