

Ubiquitin Monoclonal Antibody | anti-UBC antibody

Ubiquitin, monoclonal antibody, mouse

CATALOG #	REACTIVITY	APPLICATIONS
AAA76572	Bovine, Chicken, Human, Mouse, Porcine, Rat	Western Blot, Immunohistochemistry, Immunofluorescence, Immunocytochemistry

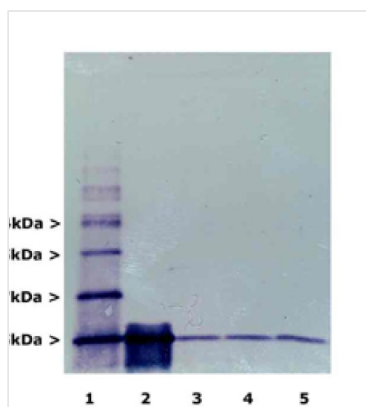
PRODUCT SYNONYMS

Ubiquitin; Monoclonal Antibody; monoclonal antibody; mouse; anti-UBC antibody

PRODUCT SPECIFICATIONS

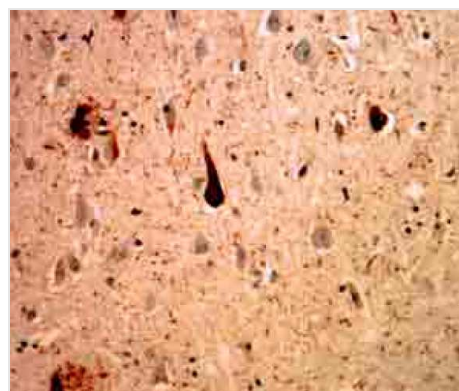
Reactivity	Bovine, Chicken, Human, Mouse, Porcine, Rat
Clonality	Monoclonal
Purity/Purification	Affinity Purified
Form/Format	Liquid
Sequence Length	685
Applicable Applications for anti-UBC antibody	WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence), ICC (Immunocytochemistry)

IMAGES



Application Data

Image: Blots of mono and polyubiquitin (lane 1), monoubiquitin only (2), and 100 mug total wet weight of cerebellum, cortex and brain stem respectively (lane 3-5). Material was run out on 20% SDS-PAGE and transferred electrophoretically to PVDF



Application Data

Image: staining of cerebral cortex of an Alzheimer patient. Neurofibrillary tangles and dystrophic neurites associated with senile plaques stain strongly with this antibody. In the center is a typical neurofibrillary tangle containing neuron

ADDITIONAL INFORMATION

Related Product Information for anti-UBC antibody	Ubiquitin is a highly conserved globular 76 amino acid protein of about 8.5 kDa molecular weight. It has an important role in the targeting of proteins for proteolytic degradation. Proteins to be degraded are covalently coupled to the C-terminus of ubiquitin by means of ubiquitin ligases. The ubiquitin itself is frequently also ubiquitinated, producing a polyubiquitin chain. The polyubiquitinated complex is then recognized by a complex of degradative enzymes which together form the proteosome. Interestingly, ubiquitin also becomes covalently bonded to many types of pathological inclusions seen in serious human disease states which appear to be resistant to normal degradation, so that ubiquitin antibodies are very useful for studies of these inclusions. For example the neurofibrillary tangles and paired helical filaments of Alzheimer's disease, the Lewy bodies seen in Parkinson's disease, and Pick bodies found in Pick's disease are all heavily ubiquitinated and can all be readily visualized with ubiquitin antibodies of appropriate specificity. Product was raised against purified ubiquitin conjugated with glutaraldehyde to keyhole limpet hemocyanin. This antibody can used to study ubiquitinated inclusions seen in Alzheimer's and other kinds of disease; such as such as the Lewy bodies of Parkinson's disease and the Pick bodies in Pick's disease in formalin fixed tissues. It can be used on mildly fixed histological sections of human brain, and paraffin embedded material.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	340068
NCBI GeneID	7316
Molecular Weight	77,039 Da
NCBI Official Full Name	ubiquitin
NCBI Official Synonym Full Names	ubiquitin C
NCBI Official Symbol	UBC
NCBI Official Synonym Symbols	HMG20
NCBI Protein Information	polyubiquitin-C
UniProt Protein Name	Polyubiquitin-C
UniProt Gene Name	UBC

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.