

# Ubiquitin (Autophagy Marker) (ZM191) Mouse Monoclonal Antibody

**Specificity:** Human. Others-not known

**Immunogen:** Recombinant human Ubiquitin protein fragment (around aa 1-119)

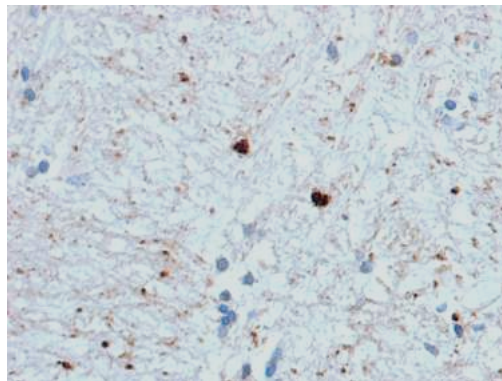
**Ig Class:** IgG2a/ $\kappa$

**Storage:** Store vial at 4°C. When stored at 2-8°C, this antibody is stable for 24 months

**Staining procedures:** Use formalin-fixed and paraffin-embedded sections. *Retrieval conditions:* Pretreatment of deparaffinized tissue with heat-induced epitope retrieval is recommended. *Detection methods:* Polymer anti-mouse/rabbit Ig detection system. *Working dilution:* 1:100-200; *Positive Control:* Brain. *Cellular Localization:* Cytoplasmic and membranous. *Intended Use:* In vitro diagnosis (IVD).

**Description:** Ubiquitin is a highly conserved and plays an essential role in the ubiquitin-proteasome pathway. In ubiquitination process, it is first activated by forming a thiol-ester complex with the activation component E1, which is then transferred to ubiquitin-carrier protein E2, followed by to ubiquitin ligase E3 for final delivery to epsilon-NH<sub>2</sub> of the target protein lysine residue. I $\kappa$ B, p53, cdc25A, Bcl-2 etc. are shown as targets of ubiquitin-proteasome process as part of regulation of cell cycle progression, differentiation, cell stress response, and apoptosis. Moreover, ubiquitin have been reported to bind covalently with pathological inclusions which are resistant to degradation e.g. neurofibrillary tangles/paired helical filaments in Alzheimer's disease, Lewy bodies seen in Parkinson's disease, and Pick bodies found in Pick's disease etc.

**Supplied As:** Purified antibody with 0.2% BSA and 15mM sodium azide.



*Formalin-fixed, paraffin-embedded human brain stained with anti-ubiquitin antibody using peroxidase-conjugate and DAB chromogen. Note nuclear staining pattern of neuron*

**Cat. #Z2504 (1.0 ml)**

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