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PRODUCT DATASHEET

# Anti-Phospho-Ubiquitin Ser65 Recombinant Chicken Chimeric mAb

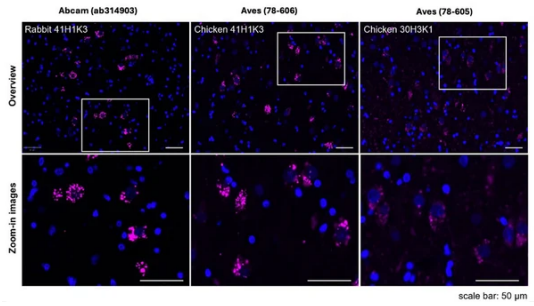
## Product Details

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| **Available Variants** | 100 µL (SKU:78-606)<br>20 µL (SKU:78-606-020) |
| **Conjugate** | Unconjugated |
| **Isotype** | IgY |
| **Clone** | 41H1K3 |
| **Gene Name** | UBC, UBB |
| **Host Species** | Chicken |
| **Concentration** | 1 mg/mL |
| **Format** | Purified by affinity chromatography |
| **Physical State** | Liquid |
| **Buffer** | 1X PBS, 0.05% Sodium Azide pH 7.4 |
| **Production Notes** | This recombinant antibody is a chimeric antibody created by replacing the mouse heavy and light constant regions of clone 41H1K3 with chicken IgY heavy and light constant regions. As such this antibody retains the same binding performance as the original clone 41H1K3 but can be detected using standard anti-chicken secondary antibodies allowing flexibility for multiplexing applications. This antibody is expressed recombinantly in mammalian cells and then affinity purified from the cell culture media. |
| **Applications** | IHC, WB |
| **Dilution Ranges** | WB: 1:1000<br>IHC: 1:200-1:1000 |
| **Species Reactivity** | Human, Mouse, Rat |
| **Immunogen** | The exact immunogen used to generate this antibody is proprietary information |

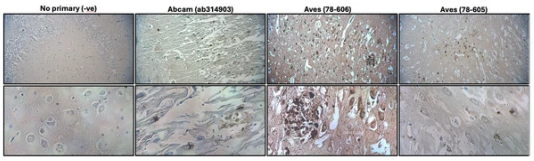
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| **Specificity** | No cross-reactivity reported |
| **Molecular Weight** | Multiple bands |
| **Quality Control** | Each new lot of antibody is quality control tested by Western blot on mock- and CCCP-treated HeLa lysates and confirmed to stain multiple bands only in CCCP treated lysates |
| **Storage** | Aliquot and store at ≤ -20°C for long term storage. For short term storage, store at 2-8°C. For maximum recovery of product, centrifuge the vial prior to removing the cap. |
| **UniProt ID** | P0CG48<br>UniProt Summary: 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 proteotoxic stress response and cell cycle; 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. During ubiquitination, the acceptor ubiquitin is positioned in the active site via direct interaction with the E2 ubiquitin-conjugating enzymes such as UBE2R2.<br>As a monoubiquitin, its C-terminal glycine is recognized as a C-degron by Cul2-RING (CRL2) E3 ubiquitin-protein ligase complexes (PubMed:39548056) |
| **Country of Origin** | United States |
| **Shipping** | Shipped on ice packs |
| **Expiration** | 24 months from date of receipt |
| **Usage Statement** | These antibodies are to be used as research laboratory reagents and are not for use as diagnostic or therapeutic reagents in humans. |
| **Collaborations** | This antibody was developed with support from The Michael J. Fox Foundation. |

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| **Post Translational Modification Type** | Phosphorylated |
| **Post Translational Modification Residue** | Ser65 |
| **NCBI Gene ID** | 7316 |

## Product Images




Immunohistochemistry for detection of phospho-Ubiquitin Ser65 in FFPE sections of human Alzheimer's Disease (AD) hippocampus region using Aves anti-phospho-Ubiquitin Recombinant Chicken Monoclonal antibody [41H1K3] (Cat No. 78-606), Aves anti-phospho-Ubiquitin Recombinant Chicken Monoclonal antibody [30H3K1] (Cat No. 78-605), and Abcam anti-phospho-Ubiquitin Recombinant Rabbit Monoclonal antibody [41H1K3] (Cat No. ab314903). Tissue was fixed with 4% paraformaldehyde and paraffin embedded. Heat induced antigen retrieval was performed using citrate buffer (pH 6) and then blocked with serum-free blocking solution. All the antibodies were incubated with the sample at 2.42 µg/mL at 4C overnight. After washing with PBS, the sections were stained using goat anti-chicken IgY 647 (magenta) or goat anti-rabbit 647 (magenta) secondary antibodies. DAPI nuclear stain (blue) shows cell nuclei. Images courtesy of Wolfdieter Springer, Mayo Clinic, Jacksonville, Florida.




Immunohistochemistry for detection of phospho-Ubiquitin Ser65 in FFPE sections of human Alzheimer's Disease (AD) hippocampus region using Aves anti-phospho-Ubiquitin Recombinant Chicken Monoclonal antibody [41H1K3] (Cat No. 78-606), Aves anti-phospho-Ubiquitin Recombinant Chicken Monoclonal antibody [30H3K1](Cat No. 78-605), and Abcam anti-phospho-Ubiquitin Recombinant Rabbit Monoclonal antibody [41H1K3] (Cat No. ab314903). Heat induced antigen retrieval was performed on human AD hippocampal FFPE sections using citrate buffer (Cat No. AR-6544) and then blocked with Immuno Protein Blocking Solution with Goat Serum (Cat No. AR-6591). All the antibodies were incubated with the sample at 5 µg/mL at 4C overnight. After washing with PBST, the sections were stained using goat anti-chicken HRP or goat anti-rabbit HRP secondary antibodies. No primary was used as a negative control. Magnification – Images in upper row – 100X; Images in lower row – 400X.