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PRODUCT DATASHEET

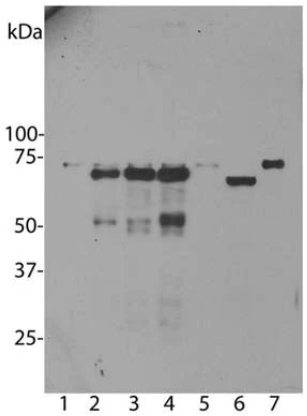
Anti-Ubiquilin 2 Antibody

Product Details

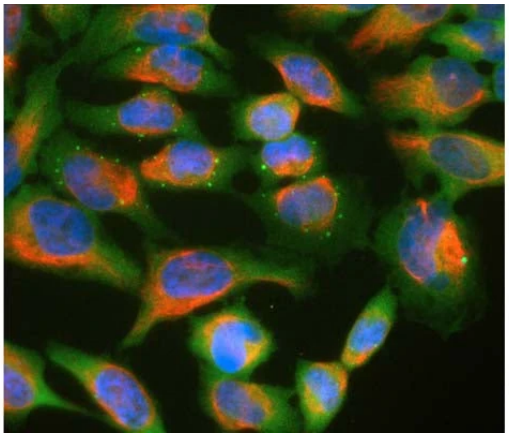
Available Variants	100 µg (SKU:M-1656-100)
Conjugate	Unconjugated
Isotype	IgG1
Clone	6H9
Host Species	Mouse
Format	IgG
Physical State	Lyophilized
Buffer	Lyophilized from PBS buffer pH 7.2-7.6 with 0.1% trehalose, and sodium azide
Production Notes	Protein G purified
Applications	ICC, WB
Dilution Ranges	WB: 1:1000-1:2000 ICC: 1:500-1:1000
Species Reactivity	Human, Mouse
Immunogen	Recombinant human ubiquilin 2 expressed and purified from E. coli.
Specificity	In primary mouse neuron and glia cell culture, endogenous ubiquilin 2 appears as a weak band at 68 kDa in all tranduced and non-transduced cells, indicating low endogenous expression of mouse ubiquilin 2. Strong bands are seen in cells transduced with human wild type or mutant ubiquilin 2. Small proteins which run at 50 kDa in these cells are the fragments of ubiquilin 2. Note, ubiquilin 2 runs at ~66 kDa in human Hela cells and 68 kDa in rodent 3T3 cells. The antibody has also been used successfully for immunocytochemistry.
Molecular Weight	~66 kDa in human Hela cells and 68 kDa in rodent 3T3 cells
Storage	Spin vial briefly before opening. Reconstitute with 100 µL sterile-filtered, ultrapure water to achieve a 1 mg/mL concentration. Centrifuge to remove any

	insoluble material. Aliquot and store at -20°C for up to six months after date of receipt. Avoid freeze-thaw cycles.
UniProt ID	Q9UHD9 UniProt Summary: Plays an important role in the regulation of different protein degradation mechanisms and pathways including ubiquitin-proteasome system (UPS), autophagy and the endoplasmic reticulum-associated protein degradation (ERAD) pathway. Mediates the proteasomal targeting of misfolded or accumulated proteins for degradation by binding (via UBA domain) to their polyubiquitin chains and by interacting (via ubiquitin-like domain) with the subunits of the proteasome. Plays a role in the ERAD pathway via its interaction with ER-localized proteins FAF2/UBXD8 and HERPUD1 and may form a link between the polyubiquitinated ERAD substrates and the proteasome. Involved in the regulation of macroautophagy and autophagosome formation; required for maturation of autophagy-related protein LC3 from the cytosolic form LC3-I to the membrane-bound form LC3-II and may assist in the maturation of autophagosomes to autolysosomes by mediating autophagosome-lysosome fusion. Negatively regulates the endocytosis of GPCR receptors: AVPR2 and ADRB2, by specifically reducing the rate at which receptor-arrestin complexes concentrate in clathrin-coated pits (CCPs).
Country of Origin	United States
Shipping	25°C (ambient)
Expiration	12 months after date of receipt (unopened vial).
Usage Statement	For research use only.
NCBI Gene ID	29978

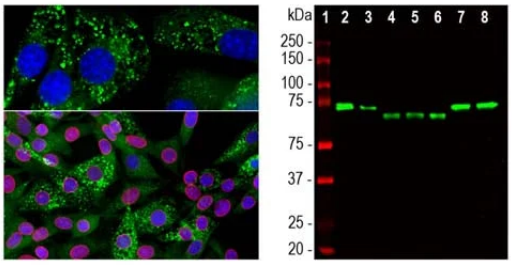
Product Images



Western blot analysis of untransfected primary mouse neuron and glia cell cultures (lane 1), the same cells transduced with human ubiquilin 2 wild type (lane 2), with ubiquilin 2 P506T mutant (lane 3), with ubiquilin 2 P497S mutant (lane 4), with enchanced GFP control (lane 5), in HeLa cells (lane 6) and 3T3 cells (lane 7).



HeLa cell cultures stained with M-1656-100 (green) and our chicken polyclonal antibody to vimentin: C-1409-50 (red). In most individual cells ubiquilin 2 is present diffusely in the cytoplasm of cells, though some cells show enrichment of the protein in spherical autophagosome-like structure.



Left: Analysis of ubiquilin 2 expression in NIH-3T3 cell culture by **Immunocytochemistry**. Cells were stained with mouse antibody to ubiquilin 2 (green, 1:1,000), and co-stained with chicken antibody to lamin A/C (C-1698-100, red, 1:5,000). Blue: DAPI nuclear stain. Cells were treated with 50 uM of chloroquine, an inhibitor of autophagy, for 16 hours prior to staining. The ubiquilin 2 antibody reveals punctate staining of ubiquilin 2 protein accumulated in lysosomes in the cytoplasm, while the lamin A/C antibody stains the nuclear lamina. **Right: Western blot** analysis of tissue and cell lysates using mouse antibody to ubiquilin 2 (green, 1:1,000). [1] protein standard, [2] NIH-3T3, [3] C6, [4] HEK293, [5] HeLa, [6] SH-SY5Y, [7] rat whole brain, and [8] mouse whole brain. The band at 65-70 kDa corresponds to ubiquilin 2 protein, which is known to differ between human and rodent species.

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