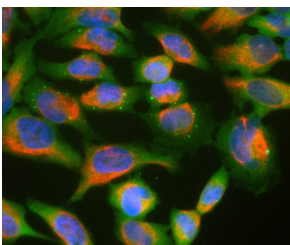


Anti-Ubiquilin 2 Antibody [6H9] (A85449)

Specifications:

Name:	Anti-Ubiquilin 2 Antibody [6H9]
Description:	Mouse monoclonal (6H9) antibody to Ubiquilin 2.
Applications:	WB, ICC/IF, IHC
Recommended Dilutions:	WB: 1:1,000-1:2,000, ICC/IF: 1:1,000, IHC: 1:1,000
Reactivity:	Human, Rat, Mouse
Immunogen:	Recombinant full-length human Ubiquilin 2, expressed in and purified from E. coli.
Host:	Mouse
Clonality:	Monoclonal
Clone ID:	6H9
Isotype:	IgG1
Conjugate:	Unconjugated
Purification:	Immunogen affinity purification.
Concentration:	1 mg/ml
Molecular Weight:	66-68 kDa
Product Form:	Liquid
Formulation:	Supplied in Phosphate Buffered Saline with 50% Glycerol and 5mM Sodium Azide.
Storage:	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Disclaimer:	This product is for research use only. It is not intended for diagnostic or therapeutic use.

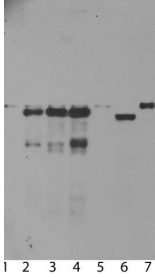
Images:



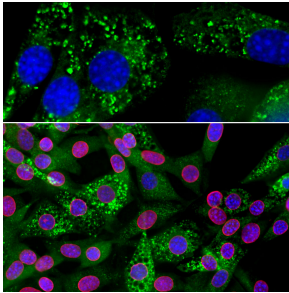
HeLa cell cultures stained with Anti-Ubiquilin 2 Antibody (green) and Anti-Vimentin Antibody (A85421 | red). In most individual cells ubiquilin 2 is present diffusely in the cytoplasm of cells, though some cells show enrichment of the protein in spherical autophagosome-like structure.

Anti-Ubiquilin 2 Antibody [6H9] (A85449)

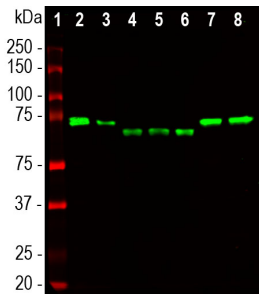
Images continued:



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) and with enhanced GFP control (Lane 5), all probed with Anti-Ubiquilin 2 Antibody. Also seen is Anti-Ubiquilin 2 Antibody staining in HeLa cells (Lane 6) and 3T3 cells (Lane 7). In primary mouse neuron and glia cell culture, endogenous ubiquilin 2 appears as a weak band at 68 kDa in all transduced and non-transduced cells, indicating low endogenous expression of mouse ubiquilin 2. Strong bands are seen in the cells transduced with human wild type or mutant ubiquilin 2. Small proteins run at 50 kDa in these cells are the fragments of ubiquilin 2. Note, ubiquilin 2 run at ~66 kDa in human HeLa cells and 68 kDa in rodent 3T3 cells.



Immunofluorescent analysis of an NIH-3T3 cell culture stained with Anti-Ubiquilin 2 Antibody [6H9] (A85449), at a dilution of 1:1,000, in green, and co-stained with Anti-Lamin A + C Antibody (A85443) at a dilution of 1:5,000 in red. The blue is DAPI staining of nuclear DNA. The cells were treated with 50µM of chloroquine, an inhibitor of autophagy, for 16 hours prior to staining. The Anti-Ubiquilin 2 Antibody [6H9] (A85449) reveals punctate staining of ubiquilin 2 protein accumulated in lysosomes in the cytoplasm, while the Anti-Lamin A + C Antibody (A85443) stains the nuclear lamina.



Western blot analysis of different tissue and cell lysates using Anti-Ubiquilin 2 Antibody [6H9] (A85449), at a dilution of 1:1,000, in green. The lanes contain samples of: [1] Protein standards, in red, [2] NIH-3T3 cells, [3] C6 cells, [4] HEK293 cells, [5] HeLa cells, [6] SH-SY5Y cells, [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 the human and rodent proteins.