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UBQLN2 Antibody (monoclonal) (M03)

Mouse monoclonal antibody raised against a partial recombinant UBQLN2.
Catalog # AT4449a

Product Information

Application	WB, IF, E
Primary Accession	Q9UHD9
Other Accession	NM_013444
Reactivity	Human, Mouse, Rat
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	5F5
Calculated MW	65696

Additional Information

Gene ID	29978
Other Names	Ubiquilin-2, Chap1, DSK2 homolog, Protein linking IAP with cytoskeleton 2, PLIC-2, hPLIC-2, Ubiquitin-like product Chap1/Dsk2, UBQLN2, N4BP4, PLIC2
Target/Specificity	UBQLN2 (NP_038472, 555 a.a. ~ 624 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~1:50~200 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	UBQLN2 Antibody (monoclonal) (M03) is for research use only and not for use in diagnostic or therapeutic procedures.

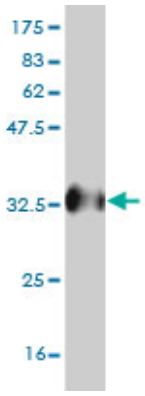
Background

This gene encodes an ubiquitin-like protein (ubiquilin) that shares high degree of similarity with related products in yeast, rat and frog. Ubiquilins contain a N-terminal ubiquitin-like domain and a C-terminal ubiquitin-associated domain. They physically associate with both proteasomes and ubiquitin ligases; and thus, are thought to functionally link the ubiquitination machinery to the proteasome to affect in vivo protein degradation. This ubiquilin has also been shown to bind the ATPase domain of the Hsp70-like Stch protein.

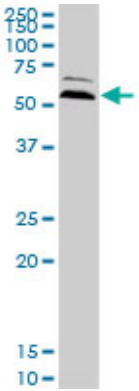
References

1.C9ORF72, implicated in amytrophic lateral sclerosis and frontotemporal dementia, regulates endosomal trafficking.Farg MA, Sundaramoorthy V, Sultana JM, Yang S, Atkinson RA, Levina V, Halloran MA, Gleeson PA, Blair IP, Soo KY, King AE, Atkin JDHum Mol Genet. 2014 Feb 27.2.Lower Motor Neuron Involvement in TAR DNA-Binding Protein of 43 kDa-Related Frontotemporal Lobar Degeneration and Amyotrophic Lateral Sclerosis.Riku Y, Watanabe H, Yoshida M, Tatsumi S, Mimuro M, Iwasaki Y, Katsuno M, Iguchi Y, Masuda M, Senda J, Ishigaki S, Udagawa T, Sobue GJAMA Neurol. 2013 Dec 30. doi: 10.1001/jamaneurol.2013.5489.3.Progressive amnestic dementia, hippocampal sclerosis, and mutation in C9ORF72.Murray ME, Bieniek KF, Banks Greenberg M, Dejesus-Hernandez M, Rutherford NJ, van Blitterswijk M, Niemantsverdriet E, Ash PE, Gendron TF, Kouri N, Baker M, Goodman IJ, Petrucelli L, Rademakers R, Dickson DWActa Neuropathol. 2013 Aug 7.4.Ubiquilin-1 immunoreactivity is concentrated on Hirano bodies and dystrophic neurites in Alzheimer's disease brains.Satoh J, Tabunoki H, Ishida T, Saito Y, Arima KNeuropathol Appl Neurobiol. 2013 Feb 20. doi: 10.1111/nan.12036.5.Tau pathology in frontotemporal lobar degeneration with C9ORF72 hexanucleotide repeat expansion.Bieniek KF, Murray ME, Rutherford NJ, Castanedes-Casey M, Dejesus-Hernandez M, Liesinger AM, Baker MC, Boylan KB, Rademakers R, Dickson DW.Acta Neuropathol. 2012 Sep 28. [Epub ahead of print]J6.p62 positive, TDP-43 negative, neuronal cytoplasmic and intranuclear inclusions in the cerebellum and hippocampus define the pathology of C9orf72-linked FTLD and MND/ALS.Al-Sarraj S, King A, Troakes C, Smith B, Maekawa S, Bodi I, Rogelj B, Al-Chalabi A, Hortobagyi T, Shaw CE.Acta Neuropathol. 2011 Dec;122(6):691-702. Epub 2011 Nov 19.

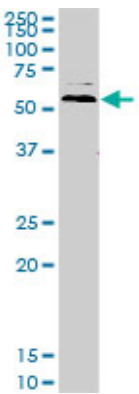
Images



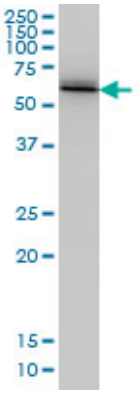
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (33.44 KDa) .



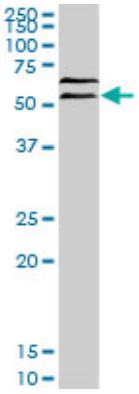
UBQLN2 monoclonal antibody (M03), clone 5F5. Western Blot analysis of UBQLN2 expression in PC-12 ((Cat # AT4449a)



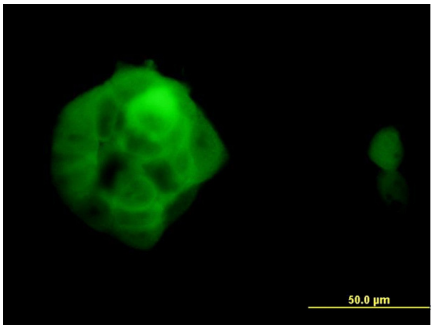
UBQLN2 monoclonal antibody (M03), clone 5F5. Western Blot analysis of UBQLN2 expression in Raw 264.7 ((Cat # AT4449a)



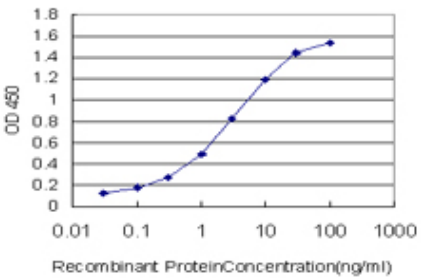
UBQLN2 monoclonal antibody (M03), clone 5F5 Western Blot analysis of UBQLN2 expression in A-431 ((Cat # AT4449a)



UBQLN2 monoclonal antibody (M03), clone 5F5. Western Blot analysis of UBQLN2 expression in NIH/3T3 ((Cat # AT4449a)



Immunofluorescence of monoclonal antibody to UBQLN2 on A-431 cell. [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged UBQLN2 is approximately 0.03ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.