

Ubiquitin (Autophagy Marker) Antibody

Mouse Monoclonal Antibody [Clone UBB/2122]

Catalog No	Format	Size
7314-MSM2-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
7314-MSM2-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
7314-MSM2-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

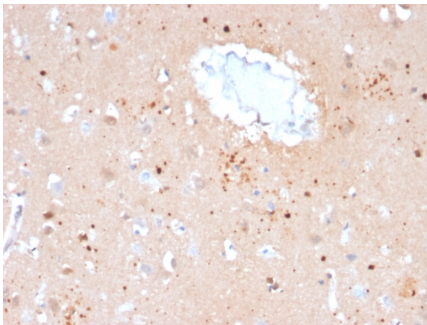
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

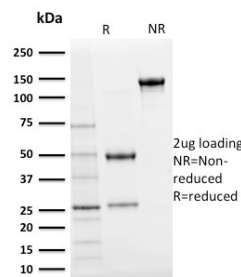
Clone	UBB/2122
Gene Name	IGKV1D-16
Immunogen	Recombinant fragment of human Ubiquitin protein (around aa 1-119) (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	9kDa
Cellular Localization	Cell membrane, Secreted
Species Reactivity	Human
Positive Control	HeLa or Raji cells, Human Brain.

*Optimal dilution for a specific application should be determined.

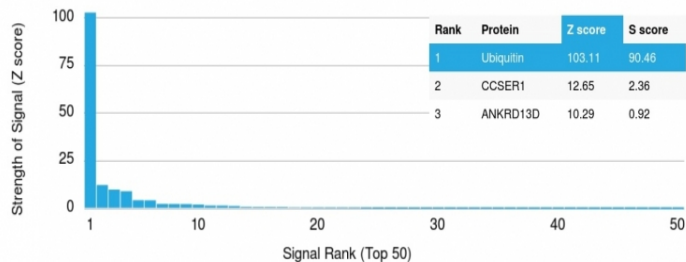
Product Images for Ubiquitin (Autophagy Marker) Antibody



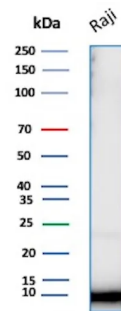
Formalin-fixed, paraffin-embedded human Brain stained with Ubiquitin Mouse Monoclonal Antibody (UBB/2122).



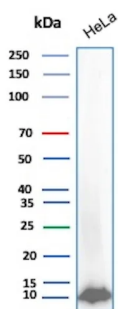
SDS-PAGE Analysis Purified Ubiquitin Mouse Monoclonal Antibody (UBB/2122). Confirmation of purity and integrity.



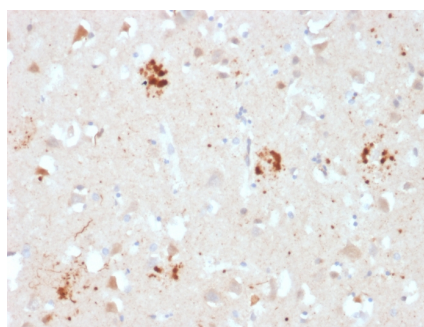
Analysis of Protein Array containing more than 19,000 full-length human proteins using Ubiquitin Mouse Monoclonal Antibody (UBB/2122) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to be specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



Western Blot Analysis of Raji lysate using Ubiquitin Mouse Monoclonal Antibody (UBB/2122)



Western Blot Analysis of HeLa lysate using Ubiquitin Mouse Monoclonal Antibody (UBB/2122)



Formalin-fixed, paraffin-embedded human Brain stained with Ubiquitin Mouse Monoclonal Antibody (UBB/2122).

Specificity & Comments

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-NH₂ of the target protein lysine residue. IκB, 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.

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Apoptosis, Autophagy, Cardiovascular, Developmental Biology, Hypoxia, Immunology, Neuroscience, Cytokine Signaling, Infectious Disease, Ovarian Cancer, Signal Transduction, Transcription Factors