Ubiquitin (Autophagy Marker) Antibody

Mouse Monoclonal Antibody [Clone UBB/1748]

Catalog No	Format	Size
7314-MSM1-P0	Purified Ab with BSA and Azide	200ug/ml
7314-MSM1-P1	Purified Ab with BSA and Azide	200ug/ml
7314-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide	1.0mg/ml

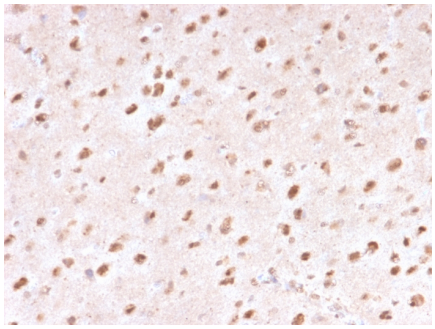
Applications	Tested Dillution
Flow Cytometry (Flow)	1-2ug/million cells
Immunofluorescence (IF)	1-3ug/ml
Immunohistochemistry (IHC)	1-2ug/ml
Western Blot (WB)	2-4ug/ml

Product Details

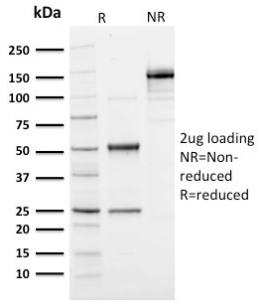
Clone	UBB/1748
Gene Name	IGKV1D-16
Immunogen	Recombinant fragment of human Ubiquitin protein (around aa 1-119) (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2c / Kappa
Mol. Weight of Antigen	9kDa
Cellular Localization	Cell membrane, Secreted
Species Reactivity	Human
Positive Control	HeLa or Raji cells. Alzheimer's Brain., MCF-7

**Optimal dilution for a specific application should be determined.*

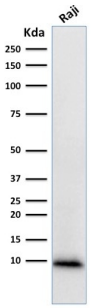
Product Images for Ubiquitin (Autophagy Marker) Antibody



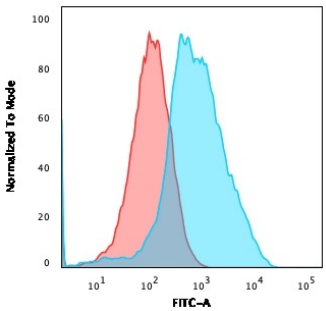
Formalin-fixed, paraffin-embedded human Brain stained with Ubiquitin-Monospecific Mouse Monoclonal Antibody (UBB/1748).



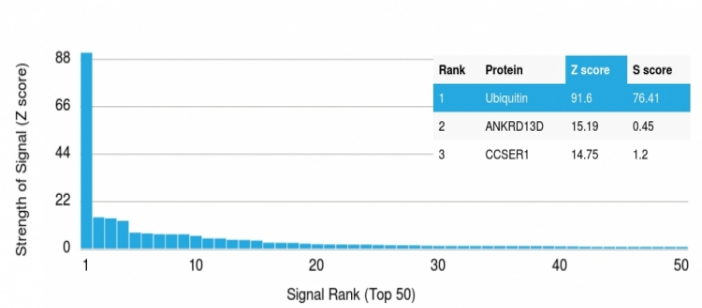
SDS-PAGE Analysis Purified Ubiquitin-Monospecific Mouse Monoclonal Antibody (UBB/1748). Confirmation of Purity and Integrity of Antibody.



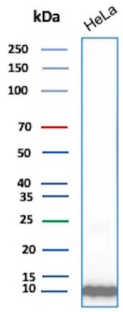
Western Blot Analysis of human Raji cell lysate using Ubiquitin-Monospecific Mouse Monoclonal Antibody (UBB/1748).



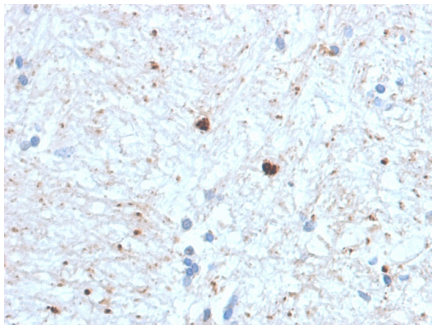
Flow Cytometric Analysis of PFA-fixed MCF-7 cells using Ubiquitin-Monospecific Mouse Monoclonal Antibody (UBB/1748) followed by goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).



Analysis of Protein Array containing more than 19,000 full-length human proteins using



Western Blot Analysis of Human HeLa lysate using Ubiquitin Mouse Monoclonal Antibody (UBB/1748)



Formalin-fixed, paraffin-embedded human Brain stained with Ubiquitin-Monospecific Mouse Monoclonal Antibody (UBB/1748).

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. IkB, 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.

Research Areas

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

Known Applications & Suggested Dilutions

Flow Cytometry (1-2ug/million cells) | Western Blot (1-2ug/ml) | Immunofluorescence (1-2ug/ml) | Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 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&degC followed by cooling at RT for 20 minutes) | Optimal dilution for a specific application should be determined.

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.

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.