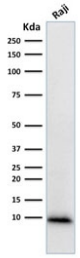
Ubiquitin Antibody [clone UBB/1748] (V3933)

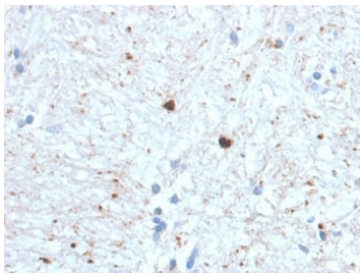
Catalog No.	Formulation	Size
V3933-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3933-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3933SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

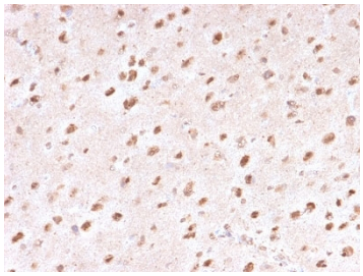
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2c, kappa
Clone Name	UBB/1748
Purity	Protein G affinity chromatography
UniProt	P0CG47, P0CG48, P62979, P62987, P62988
Localization	Cell Surface, cytoplasmic, nuclear
Applications	Flow Cytometry : 1-2ug/10^6 cells Western Blot : 1-2ug/ml Immunofluorescence : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This Ubiquitin antibody is available for research use only.



Western blot testing of human Raji cell lysate with Ubiquitin antibody (clone UBB/1748). Expected molecular weight ~9 kDa.



IHC staining of FFPE human brain with Ubiquitin antibody (clone UBB/1748). Required HIER: boil tissue sections in 10mM citrate buffer, pH 6, for 10-20 min followed by cooling at RT for 20 min.



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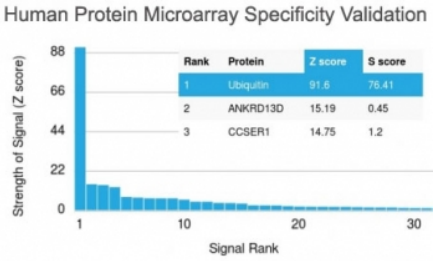
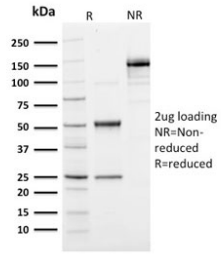
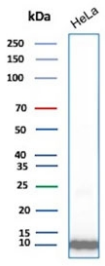


Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using Ubiquitin antibody (clone UBB/1748). These results demonstrate the foremost specificity of the UBB/1748 mAb.
Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



SDS-PAGE analysis of purified, BSA-free Ubiquitin antibody (clone UBB/1748) as confirmation of integrity and purity.



Western blot testing of human HeLa cell lysate with Ubiquitin antibody (clone UBB/1748). Expected molecular weight ~9 kDa.

Description

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.

Application Notes

Optimal dilution of the Ubiquitin antibody should be determined by the researcher.

Immunogen

A portion of amino acids 1-119 from the human protein was used as the immunogen for the Ubiquitin antibody.

Storage

Store the Ubiquitin antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).