

Ubiquitin Antibody [clone UBB/2122] (V3934)

| Catalog No. | Formulation | Size |
|----------------|--|--------|
| V3934-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 100 ug |
| V3934-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 20 ug |
| V3934SAF-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 |
| Host | Mouse |
| Clonality | Monoclonal (mouse origin) |
| Isotype | Mouse IgG1, kappa |
| Clone Name | UBB/2122 |
| Purity | Protein G affinity chromatography |
| UniProt | P0CG47, P0CG48, P62979, P62987, P62988 |
| Localization | Cell Surface, cytoplasmic, nuclear |
| Applications | ELISA (order BSA/sodium Azide-free Format For Coating) : Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT |
| Limitations | This Ubiquitin antibody is available for research use only. |

IHC staining of FFPE human brain with Ubiquitin antibody (clone UBB/2122). Required HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min.

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Western blot testing of human Raji cell lysate with Ubiquitin antibody (clone UBB/2122).
Expected molecular weight ~9 kDa.

Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using Ubiquitin antibody (clone UBB/2122). These results demonstrate the foremost specificity of the UBB/2122 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/2122) as confirmation of integrity and purity.

Western blot testing of human HeLa cell lysate with Ubiquitin antibody (clone UBB/2122). 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. 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.

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).

