# Anti-UBQLN2 Antibody

**Alternative Names:** ALS15, CHAP1, DSK2, HRIHFB2157, N4BP4, PLIC2, Ubiquilin-2

**Catalogue Number:** AB18-10055-100ug

**Size:** 100 µg

## Background Information

Ubiquilin-2 (UBQLN2) is a 624-amino acid multi-domain adaptor protein and a member of the ubiquilin family of proteins that regulate the degradation of ubiquitinated proteins by the ubiquitin-proteasome system (UPS), autophagy and the endoplasmic reticulum-associated protein degradation (ERAD) pathway. Ubiquilins are characterised by the presence of an N-terminal ubiquitin-like domain and a C-terminal ubiquitin-associated domain. The central portion is highly variable.
UBQLN2 Mediates the proteasomal targeting of misfolded or accumulated proteins for degradation by binding to their polyubiquitin chains, through the ubiquitin-associated domain (UBA) and by interacting with the subunits of the proteasome through the ubiquitin-like domain (ULD). Mutations in UBQLN2 are associated with Amyotrophic Lateral Sclerosis with most ALS-linked mutations localised to the proline-rich repeat (Pxx) region that is unique to ubiquilin-2 and not present in the other members of the ubiquilin protein family.
UBQLN2 has also been shown to bind the ATPase domain of the Hsp70-like Stch protein. Mutations in UBQLN2 are also observed in familial ALS (FALS) cases associated with aberrant TDP-43 inclusions.

## Product Information

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| **Antibody Type:** | Polyclonal | **Host:** | Rabbit |
| **Isotype:** | IgG | **Species Reactivity:** | Human, Mouse |

**Immunogen:** Partial length recombinant human UBQLN2 from the N-terminal region

**Format:** 100 µg in 100 µl PBS containing 0.02% sodium azide.

**Storage Conditions:** 6 months: 4˚C. Long-term storage: -20˚C. Avoid multiple freeze and thaw cycles.

**Applications:** WB

WB 1:200-2000.

## Additional Information

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| **Subcellular location:** | Cytoplasm, Cytoplasmic vesicle, Membrane, Nucleus, autophagosome | **MW:** | 66kDa (Intended as a general guide and does not allow for all isoforms and species variations) |
| **Gene ID** | 29978 | **Uniprot ID:** | Q9UHD9 |

## References

1. Deng, H. X. et al. Mutations in UBQLN2 cause dominant X-linked juvenile and adult-onset ALS and ALS/dementia. Nature 477, 211–215 (2011).