

## UBB

**Reactivity:**Human Mouse Rat

**Tested applications:**WB IHC ICC FC

**Recommended Dilution:**WB 1:1000 - 1:2000 IHC 1:100 - 1:200 ICC 1:100 - 1:200 FC 1:50 - 1:200

**Calculated MW:**8kDa

**Observed MW:**Refer to Figures

**Immunogen:**

A synthetic peptide of human UBB

**Storage Buffer:**

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

**Concentration:**

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**Synonym:**

UBB;FLJ25987;MGC8385

**Catalog #:**A0162

**Antibody Type:**

Polyclonal Antibody

**Species:**Rabbit

**Gene ID:**7314

**Isotype:**IgG

**Swiss Prot:**P0CG47

**Purity:**Affinity purification

For research use only.

**Background:**

Ubiquitin can be covalently linked to many cellular proteins by the ubiquitination process, which targets proteins for degradation by the 26S proteasome. Three components are involved in the target protein-ubiquitin conjugation process. Ubiquitin is first activated by forming a thiolester complex with the ubiquitin-activating enzyme (UBE1 or E1). The activated ubiquitin is subsequently transferred to the ubiquitin-carrier protein E2, and then from E2 to ubiquitin ligase E3 for final delivery to the -amino group of the target protein lysine residue (1-3). Combinatorial interactions of different E2 and E3 proteins result in substrate specificity (4). UBE1 has two isoforms: UBE1a is a nuclear protein of 117 kDa while UBE1b is a nuclear and cytoplasmic protein of 110 kDa (5).

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