

Catalog No. LF-MA0087

MONOCLONAL ANTIBODY



Anti-Ubiquitin⁺¹ (40B3)

Background : Ubiquitin⁺¹ (Ub⁺¹) is a novel mutant form of ubiquitin that can be produced through a process known as molecular frameshift. Ub⁺¹ can be polyubiquitinated to produce aberrant polyubiquitin chains that inhibit the 26S proteasome. Especially ub⁺¹ is accumulated in aggregates containing amyloid-beta and phosphorylated-tau. Elevated expression of Ub⁺¹ mRNA and protein has been observed in the brains of patients with Alzheimer's disease. Also ub⁺¹ acts as an aggravating factor in polyglutamine-induced neurodegeneration.

Immunogen : Synthetic peptide (KLH coupled) corresponding to C-terminal residues of human Ubiquitin⁺¹.

Host : Mouse

Clone number : 40B3

Isotype : IgG1, k

Size : 100ul

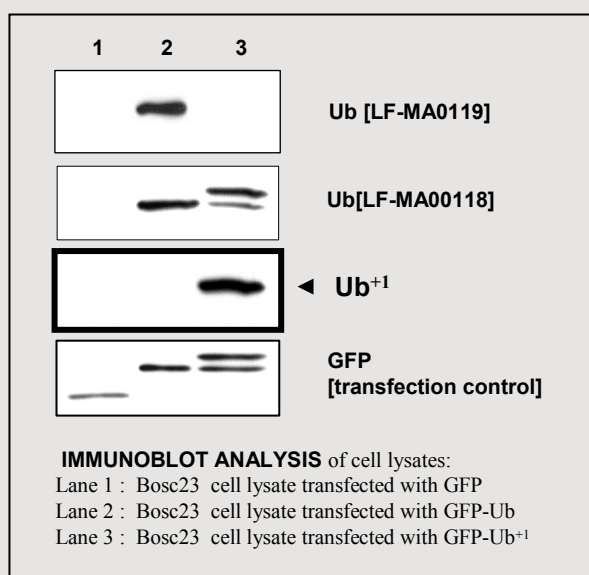
Composition : PBS containing 50% glycerol

Positive control : Bosc23 cell lysate transfected with GFP-Ub⁺¹

Storage : Store for 1 year at -20°C from date of shipment

Species cross reactivity

Human +	Mouse NT	Rat NT
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Applications :

Western Blotting (1:500-1000)

Immunoprecipitation (1-2ul/400ul cell lysates)

Background Reference :

- 1) Van Leeuwen, F.W. et al. (1998) *Science*, **279**, 242-247
- 2) Van Leeuwen, F.W. et al. (1998) *Trends Neurosci.* **21**(8), 331-335

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