LUB9, Linear Polyubiquitin-Specific Monoclonal Antibody

Cat. # AB130

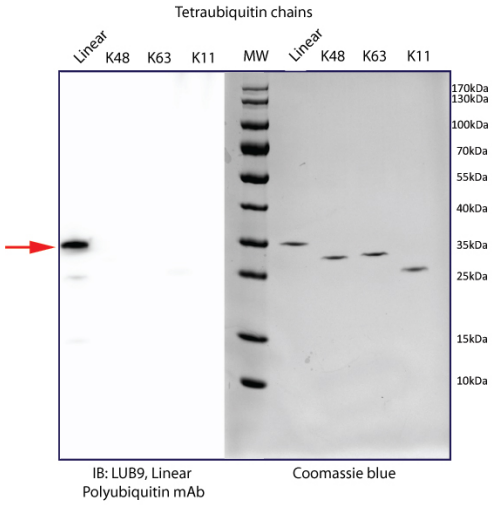
Background: Linear polyubiquitin, or met1-linked polyubiquitin, is polyubiquitin chains linked through the C-terminus of one ubiquitin and the N-terminus of another. Linear polyubiquitin plays important roles in inflammatory and immune responses, particularly within the NFκB signaling pathway. LifeSensors' linear polyubiquitin antibody displays high specificity for linear polyubiquitin chains and is suitable for immunoblot detection of linear ubiquitin chains from tissue or cell lysates.

Application: Western blotting (1µg/ml; 1:1000 -1:2500). The antibody is not suitable for immunoprecipitation and has not yet been characterized for immunostaining procedures. For all applications, optimal conditions should be determined by the user.

Product Information

Immunogen: Linear polyubiquitin
Isotype: IgG2b mouse monoclonal
Clone: LUB9
Purification: Purified from cell culture supernatant using protein A affinity chromatography
Specificity: Antibody detects polyubiquitin linked through the C-terminus of one ubiquitin and the N-terminus of another. Reactivity is independent of species due to the high conservation of ubiquitin across eukaryotes.
Supplied as: Variable Concentration in 10mM phosphate buffer, 0.15M NaCl, pH7.4
Quantity: 100µg; Sufficient for >10 Western blot applications
Storage: Store at -20ºC. Avoid multiple freeze/thaw cycles. Diluted antibody can be stored at 4ºC for up to three weeks.

LUB9 specifically detects linear over K11-, K48- and K63-linked polyubiquitin



Synthetic tetraubiquitin chains of the indicated linkages (200ng each) were separated by SDS-PAGE and coomassie stained (right) or transferred to nitrocellulose and immunoblotted with LUB9, Linear Ubiquitin mAb (1µg/ml) (left).

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References

1. Sasaki, Y., S. Sano, et al. (2013). "Defective immune responses in mice lacking LUBAC-mediated linear ubiquitination in B cells." EMBO J **32**(18): 2463-2476

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