Linear tri-ubiquitin (Ub3)

Cat. # SI0103

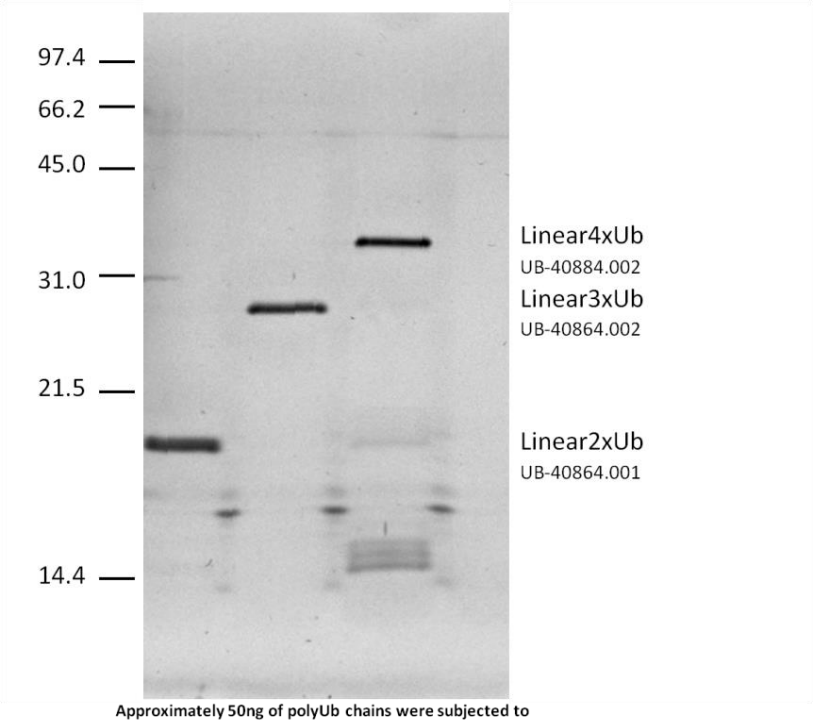
Background:

A wide range of cellular processes are modulated through the generation and attachment of polyubiquitin (polyUb) chains to target proteins. Increasing evidence suggests that polyUb chains joined through linear peptide bonds between the C-terminus of a ubiquitin and the N-terminus of another play important functional roles. The enzyme machinery responsible for the generation of linear polyUb chains has been termed LUBAC, consisting of HOIL-1L and HOIP. Chains of these type have been determined to have an open conformation, similar to polyUb K63, but with very distinct functional properties. Linear polyUb chains are cleaved by the deubiquitylases CYLD, USP5 (IsoT), USP2 and have been shown to bind to many UBDs including NEMO and Trabin-n (3xnzf).

Recombinant triubiquitin expressed as a linear chain. Amide linkages join the N- and C-terminus of each ubiquitin molecule to each other. This molecule is HIS-tagged at the N-terminus of the most distal ubiquitin.

Product Information

Purity:	≥ 90%
Molecular Weight:	26.3 kDa
Physical State:	Liquid, 20mM Tris, pH 7.5, 0.15M NaCl, 1mM EDTA
Quantity:	100 µg
Storage:	-80°C. Avoid repeated freeze/thaw cycles



Approximately 50ng of polyUb chains were subjected to SDS-PAGE analysis (15%) and visualized by silver staining.