Fluoresceinated-K48-linked tetra ubiquitin (K48-Ub4-FLR)

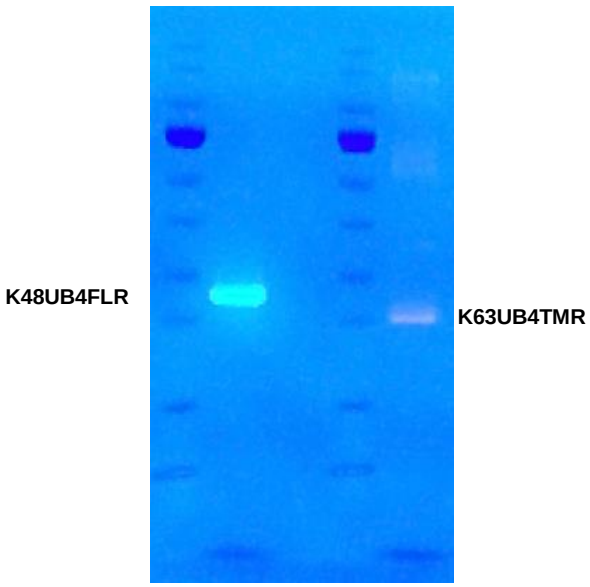
Cat. # SI4804F

Background: Poly-ubiquitylation of target proteins through linkage at K48, is now the most throughly studied of the various chain linkages, and was once considered the hallmark of this post-translational modification. It is now clear that many, if not all, poly-Ub chain topologies likely play distinct and important roles in regulating cellular processes. Nevertheless, K48 linkage remains a critical pathway for the cells to maintain homeostasis through proteolytic degradation, and as such remains very intriguing for the study of DUBs that play a role in the degradation, as well as the proteasome itself.
These tetra-ubiquitin chains are generated by the enzymatic linkage of wild-type ubiquitin through lysine 48. The most distal ubiquitin contains a Lys48 to Arg substitution limiting chain length. The fluorescein moiety is attached to a single, non-lysine site in the proximal ubiquitin.

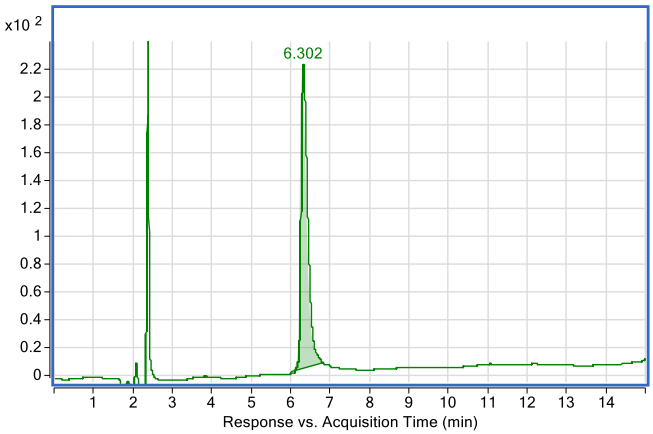
Applications: Optimization of pull-down conditions for anti-K48 TUBE and anti K63-TUBE reagents

Product Information

Purity:	≥ 95% RP-HPLC
Molecular Weight:	34,678.3 Da
Physical State:	Liquid
Quantity:	25 µg
Solubility:	>1mg/mL
Storage:	-80° C. Avoid repeated freeze/thaw cycles
Concentration:	Lot dependent, please refer to Certificate of Analysis or vial label for actual concentration



SDS-Gel, UV translumination



RP-HPLC Profile