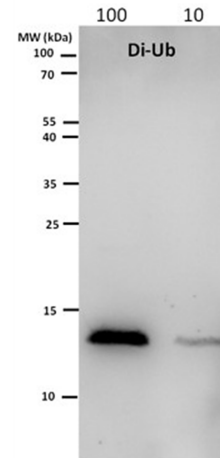


K48-linked Di-Ubiquitin

CATALOG #:	6415-50	50 µg
ALTERNATE NAMES:	UB2	
PURITY:	≥ 95% by Western Blotting	
MOL. WEIGHT:	17.139 kDa (Band migrates faster on gels)	
FORMULATION:	2.5 mg/ml in 20 mM Tris-HCl, pH 7.5, 0.15 M NaCl and 1 mM EDTA	
STORAGE CONDITIONS:	Aliquot and store at -80°C. Avoid repeated freezing and thawing cycles.	

DESCRIPTION:

Poly-ubiquitylation of target proteins through linkage at K48, is now the most thoroughly 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 di-ubiquitin chains are generated from the enzymatic linkage (E2-25K) of wild-type ubiquitin through lysine 48. The most distal ubiquitin contains an arginine substitution for a lysine at position 48, limiting the chain length.



Immunoblot analysis of ubiquitin chain with a mouse monoclonal antibody, followed by Anti-mouse IgG-HRP and detection by ECL. Ubiquitin chain mass was also verified by LC-MS.

RELATED PRODUCTS:

- K48-linked tri-ubiquitin (Cat. No. 6416-50)
- K48-linked tetra-ubiquitin (Cat. No. 6417-25)
- K63-linked di-ubiquitin (Cat. No. 6418-50)
- K63-linked tri-ubiquitin (Cat. No. 6419-50)
- K63-linked tetra-ubiquitin (Cat. No. 6420-25)
- K11-linked di-ubiquitin (Cat. No. 6421-50)
- K11-linked tri-ubiquitin (Cat. No. 6422-50)
- K11-linked tetra-ubiquitin (Cat. No. 6423-25)
- Human recombinant Linear di-ubiquitin (Cat. No. 6424-100)
- Human recombinant Linear tri-ubiquitin (Cat. No. 6425-100)
- Human recombinant Linear tetra-ubiquitin (Cat. No. 6426-100)
- Human recombinant Linear penta-ubiquitin (Cat. No. 6427-100)
- Di-ubiquitin explorer panel (Cat. No. 6428-5)

FOR RESEARCH USE ONLY! Not to be used in humans.