UbiQ
targeting the ubiquitin system

H2A(113-127) K119Ub *(human sequence, synthetic)*

UbiQ code	:	UbiQ-060
Batch #	:	B27042012-001
Amount	:	50 ug, lyophilized powder
Purity	:	≥95% by RP-HPLC
Mol. Weight	:	10.2 kDa
Storage	:	upon arrival, powder at –20°C, solution at –80°C. Please avoid multiple freeze/thaw cycles.

Productsheet

Background. UbiQ-060 is a H2A(113-127) polypeptide which is modified with ubiquitin at K119 via a native isopeptide bond. It can be used as a substrate for ubiquitin proteases,[1,2] to investigate mechanism of binding and recognition by proteins that contain ubiquitin-associated domains or ubiquitin-interacting motifs (UIMs)[3] and as antigen for immunizations. This product has been synthesized by chemical ligation.[4]

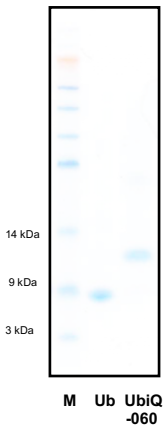
sequence

QAVLLPK (**Ub**) KTESHHKA

Ub = MQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLVLRLRGG

important: sample preparation

- dissolve the powder in as little DMSO as possible (e.g. 20 mg/mL= 1.8 mM)
- add this DMSO stock slowly to milliQ (please note the order of addition)
- buffer the aq. solution as desired (e.g. 50 mM HEPES pH 8, 100 mM NaCl)
- final stocks of e.g. 0.5 mg/mL (45 uM) will contain 2.5 vol% DMSO.
- all stocks are suitable for storage at –80°C



SDS-PAGE analysis. 12% Bolt Bis-Tris Plus gel (Life technologies), MES buffer.
M= SeeBlue Plus2 Pre-stained Standard (Invitrogen).

Literature. (1) Faesen et al. *Chemistry & Biology* **2011,***18*, 1550. (2) Dikic et al. *Nature Reviews Molecular Cell Biology* **2010**, *10*, 659. (3) Licchesi et al. *Nature Structural & Molecular Biology* **2012**, *19*, 62. (4) El Oualid et al. *Angewandte Chemie Int Ed* **2010**, *49*, 10149.

UbiQ Bio BV
Chamber of Commerce 50023438
VAT NL822502136B01

Science Park 408
1098 XH Amsterdam
The Netherlands

t +31 20 303 1970
e info@ubiqbio.com
i www.ubiqbio.com

Rabobank
IBAN NL86RABO0150658907
BIC/SWIFT RABONL2U