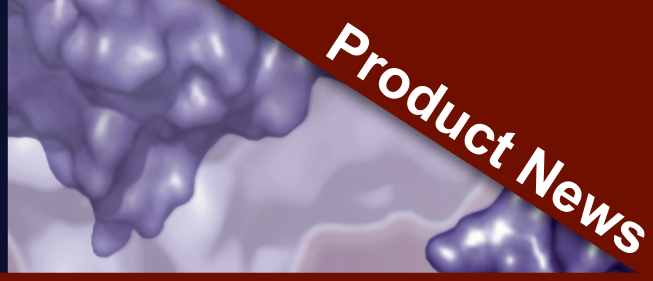
BostonBiochem™

Increasing the quality, reliability and speed of ubiquitin-related discovery



Ubiquitin Binding Domains

(UBD, UBA, UIM, TUBE)

UBD proteins and peptides for binding studies, detection and purification

- High affinity for poly Ub chains
- No affinity for monoubiquitin
- Chain linkage and length specificity
- Proteolytic protection from DUBs
- His_6-tagged
- Biotinylated
- Anchored to agarose
- Bulk quantities available

Results for K48-linked chains:

Listed from highest to lowest overall affinity

- hHR23A Tandem UBA (TUBE1)
- S5a (no affinity for diubiquitin)
- Ataxin UIM
- S5a UIM
- Rap80 UIM
- Ubiquilin-1 Tandem UBA (TUBE2)

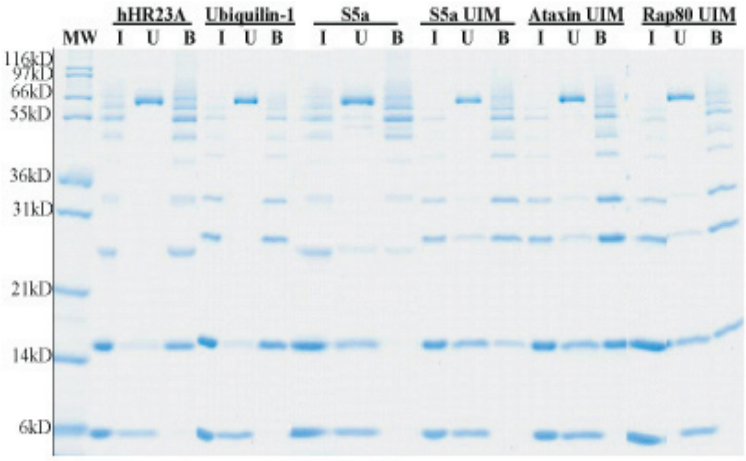


Fig 1. UBD-Agarose binding of Ub K48 chains. 25 µg K48 chains ($Ub_{1\text{-}10+}$) incubated with 25 µL of each agarose for 2 hours at 25°C. Resins were washed and unbound and bound fractions subjected to SDS-PAGE. Legend: I-input, U-unbound and B-bound to agarose.

Results for K63-linked chains:

Listed from highest to lowest overall affinity

- hHR23A Tandem UBA (TUBE1)
- Ataxin UIM
- Rap80 UIM
- Ubiquilin-1 Tandem UBA (TUBE2)
- S5a UIM
- S5a

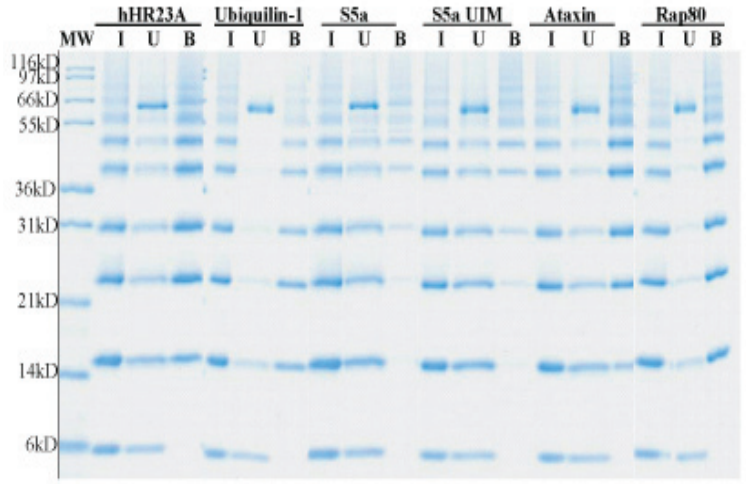


Fig 2. UBD-Agarose binding of Ub K63Chains. 25 µg of K63 chains ($Ub_{1\text{-}10+}$) incubated with 25 µL of each agarose for 2 hours at 25°C. Resins were washed and unbound and bound fractions subjected to SDS-PAGE. Legend: I-input, U-unbound and B-bound to agarose.

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Ubiquitin Binding Domains

Product Name	Catalog No.	Size
S5a agarose	AM-100	0.5 ml
S5a UIM agarose	AM-110	0.5 ml
Ataxin UIM agarose	AM-115	0.25 ml
Rap80 UIM agarose	AM-120	0.25 ml
hHR23A TUBE1 agarose	AM-125	0.25 ml
Ubiquilin-1 TUBE2 agarose	AM-130	0.25 ml
His_6-Ataxin UIM	UBE-100	250 µg
Biotin-Ataxin UIM	UBE-105	250 µg
His_6-Ubiquilin-1 TUBE2	UBE-110	250 µg
Biotin-Ubiquilin-1TUBE2	UBE-115	250 µg
His_6-hHR23A TUBE1	UBE-210	250 µg
Biotin-hHR23A TUBE2	UBE-215	250 µg
His_6-Rap80 UIM	UBE-230	250 µg
Biotin-Rap80 UIM	UBE-235	250 µg
Biotin-S5a	UBE-305	250 µg

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