BostonBiochem®
a biotechne brand

타겟 단백질 분해 연구 Tools

TOCRIS®
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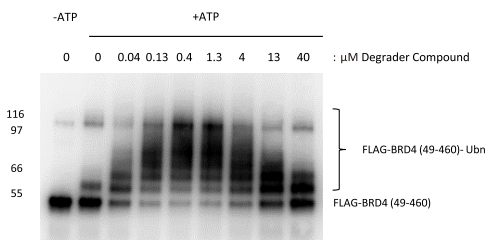
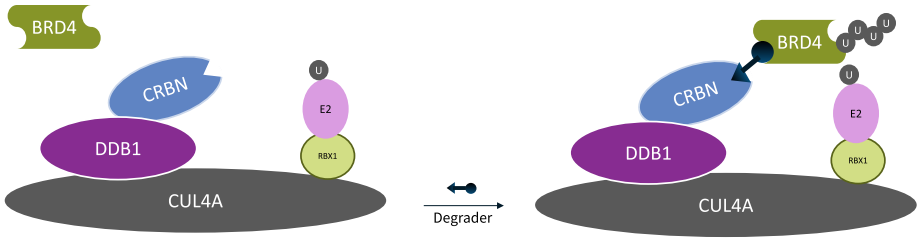
▶ In Vitro Ubiquitination Assay

- Ubiquitin Proteasome System (UPS) 연구의 선도적 기업 Boston Biochem
- Substrate Protein 의 Ubiquitin 여부 확인 연구
- 타겟단백질이 Degrader 의 존재하에 Ubiquitin화가 되는지 확인할 수 있는 강력한 방법!
- 타겟 단백질 분해 연구에 필수 연구!





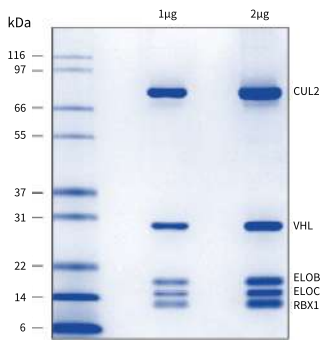
Degrader-dependent polyubiquitination of recombinant BRD4. The so-called “hook effect” is clearly evident.

ASSAY COMPONENT	PRODUCT NAME	CATALOG NUMBER
E3 Ligase Complex	Human CUL4/RBX1/DDB1/CRBN	E3-650
E2 enzyme	Human UBE2D1	E2-616
E1 enzyme	Human UBE1	E-304
Ubiquitin	Human Ubiquitin	U-100H
ATP	ATP Disodium Salt	Tocris #3245
BRD4 Substrate	Human His10-FLAG-BRD4 (49-460)	SP-600
Degrader	AKE-212	-

▶ E3 Liagase Enzymes

PRODUCT NAME	CATALOG NUMBER
CUL1/RBX1	E3-410
CUL2/RBX1	E3-420
CUL3/RBX2	E3-430
CUL4A/RBX1	E3-440
CUL5/RBX2	E3-450
DDB1/CRBN	E3-500
CUL4A/RBX1/DDB1/CRBN	E3-650
SKP1/SKP2	E3-521
SKP1/FBXO7/CUL1/RBX1	E3-526

PRODUCT NAME	CATALOG NUMBER
Elongin B/C-VHL	E3-600
VHL/ELOB/ELOC/CUL2/RBX1	E3-655
RNF114	E3-304
MDM2	E3-204
CUL1(NEDD8)/RBX1	E3-411
CUL2(NEDD8)/RBX1	E3-421
CUL3(NEDD8)/RBX1	E3-431
CUL4(NEDD8)/RBX1	E3-441
CUL5(NEDD8)/RBX2	E3-451



SDS-PAGE gel stained with colloidal Coomassie blue with 1 μg and 2 μg loading of CUL2/ RBX1/ELOB/ ELOC/VHL (Cat. No. E3-655)

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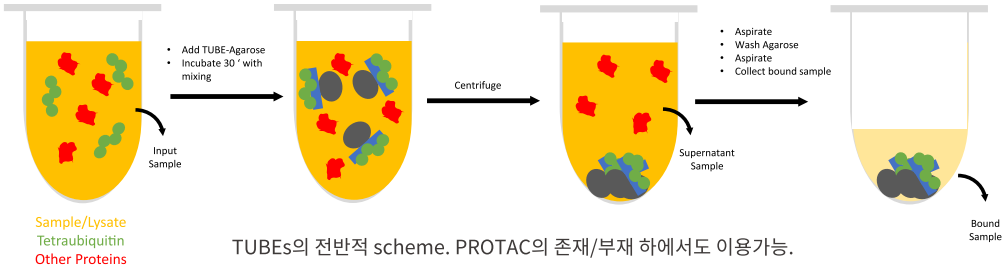
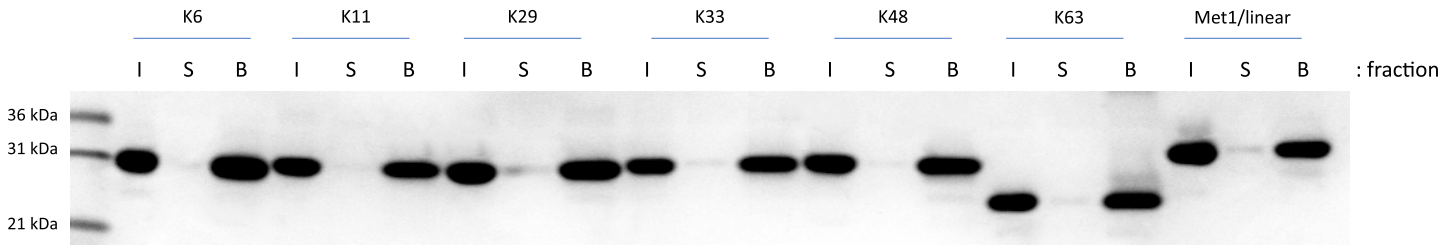
▶ Tandem Ubiquitin Binding Entities (TUBEs)

- Ubiquitin 단백질의 분리 및 Identification 을 위한 assay
- 단일 Ubiquitin화 단백질 보다 poly Ubiquitin화 단백질 검출에 탁월
- Low level 검출 가능



TUBEs의 전반적 scheme. PROTAC의 존재/부재 하에서도 이용가능.



binding to resin)

I: input sample (amount of chain, prebinding to resin)
S: supernatant after reaction (unbound chain)
B: material bound to/eluted from TUBE-agarose

Note: K63-linked tetraubiquitin chains migrate at a lower MW than other linkages.

TANDEM UBIQUITIN BINDING ENTITIES	
PRODUCT NAME	CATALOG NUMBER
Recombinant Human Ubiquilin 1 Tandem UBA (TUBE2) Agarose	AM-130-250
Recombinant Human HR23A Tandem UBA (TUBE1) Agarose	AM-125-250
Recombinant Human His6-Ubiquilin 1 Tandem UBA (TUBE2)	UBE-110-250
Recombinant Human His6-HR23A/Rad23A Tandem UBA (TUBE1)	UBE-210-250
Recombinant Human HR23A/Rad23A Tandem UBA (TUBE1) Biotin	UBE-215-250

Assay Tools for TPD

SIMPLE WESTERN™
GEL-FREE, BLOT-FREE, HANDS-FREE WESTERN BLOTS

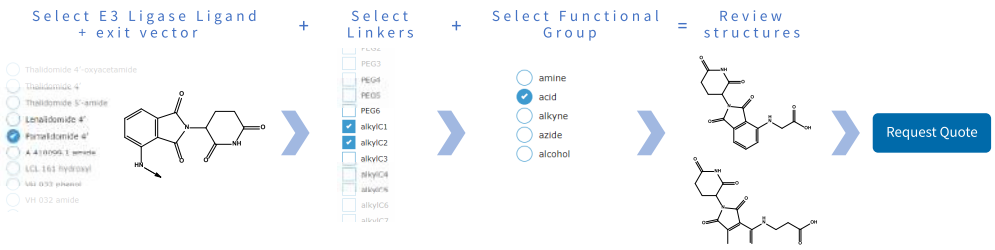
WES / JESS

- 일반 WB보다 8배 높은 감도
- 적은 샘플량 및 Ab 사용량
- 로딩부터 결과까지 3시간
- Full 자동화

▶ PROTAC

- Active Degrader_완제품 PROTAC 이용 가능
- dTAG/aTAG 이용 가능
- 내가 원하는 PROTAC 디자인 가능_Degrader Building Blocks
- Customizing 가능

TOCRIS에서
내가 원하는
디자인으로 쉽게 !



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