abcam

Product datasheet

Anti-RING2 / RING1B / RNF2 (phospho S168) antibody [EPR20902-58] - BSA and Azide free ab256315

KO 評価済 リコンビナント RabMAb

画像数 5

製品の概要

製品名	Anti-RING2 / RING1B / RNF2 (phospho S168) antibody [EPR20902-58] - BSA and Azide free
製品の詳細	Rabbit monoclonal [EPR20902-58] to RING2 / RING1B / RNF2 (phospho S168) - BSA and Azide free
由来種	Rabbit
アプリケーション	**適用あり:** WB, Dot blot, IP **適用なし:** Flow Cyt,ICC/IF or IHC-P
種交差性	**交差種:** Mouse, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: Overexpression of wild type RNF2 in RNF2 knock out mouse embryonic stem cells derived from C57BL/6 mouse, whole cell lysate; NCCIT, HEK-293T, HepG2 and F9 whole cell lysates; mouse testis tissue lysate. Dot blot: RNF2 (phospho S168) peptide (aa161-172) and RNF2 (phospho S168) peptide (aa165-176). IP: F9 whole cell lysate.
特記事項	ab256315 is the carrier-free version of **ab234421**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production

For more information **see here**.

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C. Do Not Freeze.
バッファー	pH: 7.2 Constituent: PBS
キャリア・フリー	はい
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR20902-58
アイソタイプ	IgG

アプリケーション

The Abpromise guarantee **Abpromise保証は、** 次のテスト済みアプリケーションにおけるab256315の使用に適用されます

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		Use at an assay dependent concentration. Detects a band of approximately 40 kDa (predicted molecular weight: 38 kDa).
Dot blot		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.

追加情報 Is unsuitable for Flow Cyt,ICC/IF or IHC-P.

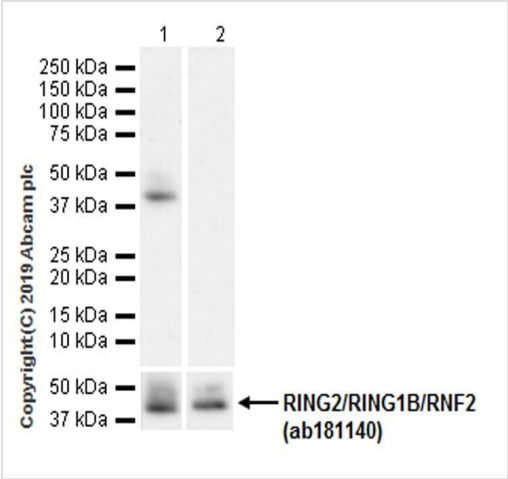
ターゲット情報

機能 E3 ubiquitin-protein ligase that mediates monoubiquitination of 'Lys-119' of histone H2A, thereby playing a central role in histone code and gene regulation. H2A 'Lys-119' ubiquitination gives a specific tag for epigenetic transcriptional repression and participates in X chromosome inactivation of female mammals. May be involved in the initiation of both imprinted and random X inactivation. Essential component of the Polycomb group (PcG) multiprotein PRC1 complex, a complex required to maintain the transcriptionally repressive state of many genes, including Hox genes, throughout development. PcG PRC1 complex act via chromatin remodeling and modification of histones, rendering chromatin heritably changed in its expressibility. E3 ubiquitin-protein ligase activity is enhanced by BMI1/PCGF4. Acts as the main E3 ubiquitin ligase on histone H2A of the PRC1 complex, while RING1 may rather act as a modulator of RNF2/RING2 activity.

パスウェイ Protein modification; protein ubiquitination.

配列類似性	Contains 1 RING-type zinc finger.
翻訳後修飾	Polyubiquitinated in the presence of UBE2D3 (in vitro). Monoubiquitinated, by auto-ubiquitination.
細胞内局在	Nucleus. Chromosome. Enriched on inactive X chromosome (Xi) in female trophoblast stem (TS) cells as well as differentiating embryonic stem (ES) cells. The enrichment on Xi is transient during TS and ES cell differentiation. The association with Xi is mitotically stable in non-differentiated TS cells.

画像



Western blot - Anti-RING2 / RING1B / RNF2 (phospho S168) antibody [EPR20902-58] - BSA and Azide free (ab256315)

All lanes : Anti-RING2 / RING1B / RNF2 (phospho S168) antibody [EPR20902-58] (**ab234421**) at 1/1000 dilution

Lane 1 : Overexpression of wild type RNF2 in RNF2 knock out mouse embryonic stem cells derived from C57BL/6 mouse, whole cell lysate
Lane 2 : Overexpression of S168A mutant RNF2 in RNF2 knock out mouse embryonic stem cells derived from C57BL/6 mouse, whole cell lysate

Lysates/proteins at 10 µg per lane.

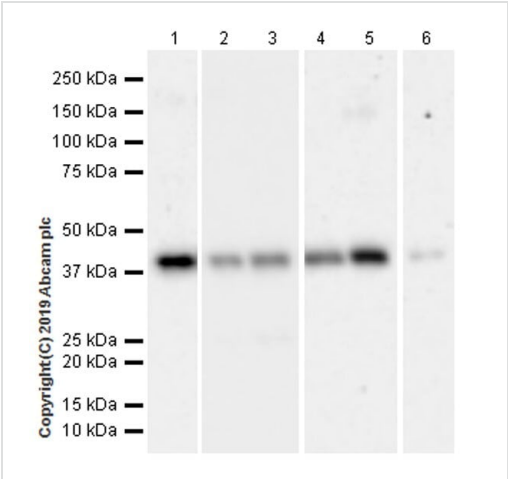
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Predicted band size: 38 kDa
Observed band size: 40 kDa

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab234421**).

Blocking and dilution buffer: 5% NFDM/TBST.

Lysates were kindly provided by Dr Jinzhong Qin.



Western blot - Anti-RING2 / RING1B / RNF2 (phospho S168) antibody [EPR20902-58] - BSA and Azide free (ab256315)

All lanes : Anti-RING2 / RING1B / RNF2 (phospho S168) antibody [EPR20902-58] (**ab234421**) at 1/1000 dilution

Lane 1 : HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate
Lane 2 : NCCIT (human pluripotent embryonic carcinoma cell line) whole cell lysate
Lane 3 : HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate
Lane 4 : HepG2 (human liver hepatocellular carcinoma cell line) whole cell lysate
Lane 5 : F9 (mouse embryonic testicular cancer cell line) whole cell lysate
Lane 6 : Mouse testis tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

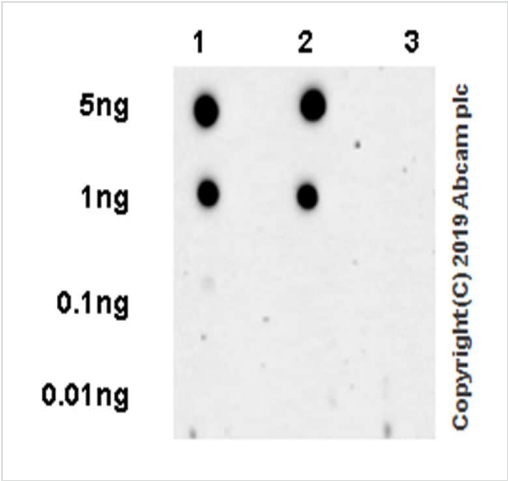
Predicted band size: 38 kDa
Observed band size: 40 kDa

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab234421**).

Blocking and dilution buffer: 5% NFDM/TBST.

Exposure times.

Lane 1: 3 minutes; Lanes 2 & 3: 15 seconds; Lanes 4-6: 3 minutes.



Dot Blot - Anti-RING2 / RING1B / RNF2 (phospho S168) antibody [EPR20902-58] - BSA and Azide free (ab256315)

Dot blot analysis of RING2 / RING1B / RNF2 (phospho S168) peptide labeled with **ab234421** at 1/1000 dilution.

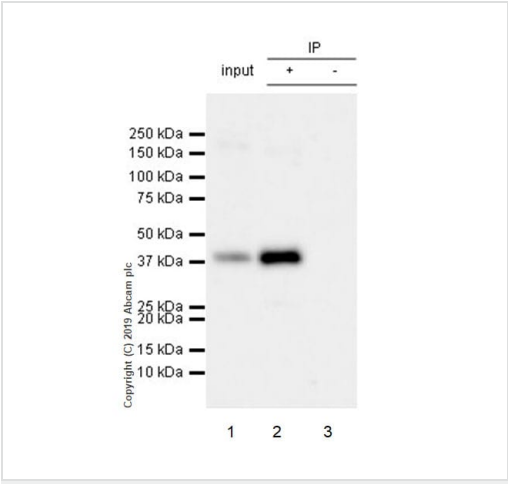
Lane 1: RING2 / RING1B / RNF2 (phospho S168) peptide (aa161-172).
Lane 2: RING2 / RING1B / RNF2 (phospho S168) peptide (aa165-176).
Lane 3: RING2 / RING1B / RNF2 non-phospho peptide (aa161-172).

Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution was used as secondary antibody.

Blocking and dilution buffer: 5% NFDM/TBST.

Exposure time: 3 minutes.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab234421**).



Immunoprecipitation - Anti-RING2 / RING1B / RNF2 (phospho S168) antibody [EPR20902-58] - BSA and Azide free (ab256315)

RING2 / RING1B / RNF2 (phospho S168) was immunoprecipitated from 0.35 mg of F9 (mouse embryonic testicular cancer cell line) whole cell lysate with a234421 at 1/30 dilution. Western blot was performed from the immunoprecipitate using abX234421 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used at 1/5000 dilution.

Lane 1: F9 whole cell lysate 10 µg (Input).
Lane 2: **ab234421** IP in F9 whole cell lysate.
Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of **ab234421** in F9 whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDM/TBST.
Exposure time: 30 seconds.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab234421**).

Anti-RING2 / RING1B / RNF2 (phospho S168) antibody [EPR20902-58] - BSA and Azide free (ab256315)

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