

Product datasheet

Anti-LATS1 +LATS2 antibody ab70565

★★★★☆ 2 Abreviews 6 References 画像数 5

製品の概要

| | |
|--------------|---|
| 製品名 | Anti-LATS1 +LATS2 antibody |
| 製品の詳細 | Rabbit polyclonal to LATS1 +LATS2 |
| 由来種 | Rabbit |
| アプリケーション | 適用あり: IHC-P, WB, IP |
| 種交差性 | 交差種: Mouse, Human 交差が予測される動物種: Rabbit, Horse, Chicken, Guinea pig, Cow, Dog, Turkey, Pig, Chimpanzee, Gorilla, Orangutan, Xenopus tropicalis, Platypus |
| 免疫原 | Synthetic peptide within Human LATS1 +LATS2 (N terminal). The exact sequence is proprietary. |
| ポジティブ・コントロール | Whole cell lysate from HeLa cells. |

製品の特性

| | |
|--------|---|
| 製品の状態 | Liquid |
| 保存方法 | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle. |
| バッファー | Preservative: 0.09% Sodium azide Constituents: 1.815% Tris, 1.764% Sodium citrate, 0.021% PBS |
| 精製度 | Immunogen affinity purified |
| ポリ/モノ | ポリクローナル |
| アイソタイプ | IgG |

アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab70565** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| アプリケーション | Abreviews | 特記事項 |
|----------|-----------|---|
| IHC-P | | Use a concentration of 2 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. |

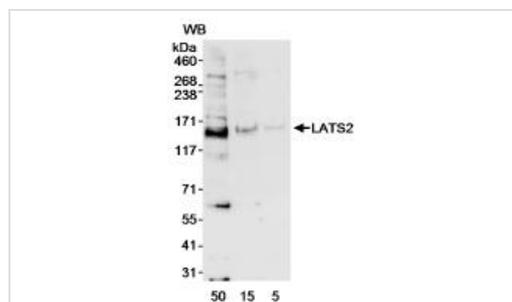
| アプリケーション | Abreviews | 特記事項 |
|----------|-----------|---|
| WB | ★★★★☆ | 1/1000 - 1/5000. Detects a band of approximately 150 kDa (predicted molecular weight: 120 kDa). |
| IP | | Use at 2-5 µg/mg of lysate. |

ターゲット情報

関連性 Negative regulator of YAP1 in the Hippo signaling pathway that plays a pivotal role in organ size control and tumor suppression by restricting proliferation and promoting apoptosis. The core of this pathway is composed of a kinase cascade wherein MST1/MST2, in complex with its regulatory protein SAV1, phosphorylates and activates LATS1/2 in complex with its regulatory protein MOB1, which in turn phosphorylates and inactivates YAP1 oncoprotein and WWTR1/TAZ. Phosphorylation of YAP1 by LATS2 inhibits its translocation into the nucleus to regulate cellular genes important for cell proliferation, cell death, and cell migration. Acts as a tumor suppressor which plays a critical role in centrosome duplication, maintenance of mitotic fidelity and genomic stability. Negatively regulates G1/S transition by down-regulating cyclin E/CDK2 kinase activity. Negative regulator of the androgen receptor.

細胞内局在 Cytoplasm; cytoskeleton; centrosome.

画像



Western blot - Anti-LATS1 +LATS2 antibody (ab70565)

All lanes : Anti-LATS1 +LATS2 antibody (ab70565) at 0.4 µg/ml

Lane 1 : HeLa cell whole lysate at 50 µg

Lane 2 : HeLa cell whole lysate at 15 µg

Lane 3 : HeLa cell whole lysate at 5 µg

Predicted band size: 120 kDa

Observed band size: 150 kDa

[why is the actual band size different from the predicted?](#)

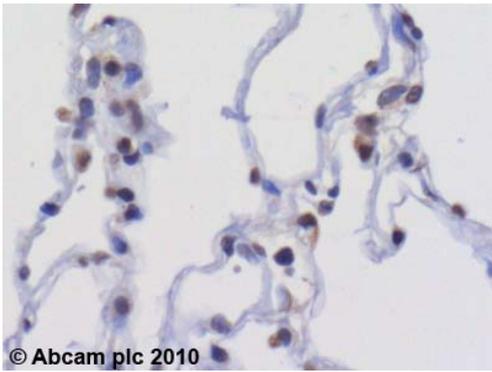
Exposure time: 30 seconds



Immunoprecipitation - Anti-LATS1 +LATS2 antibody (ab70565)

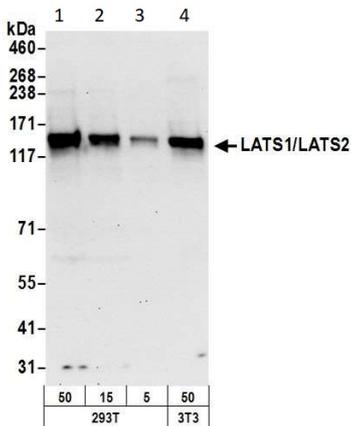
Detection of human LATS2 by Immunoprecipitation in HeLa whole cell lysate (1 mg, 1/4 of immunoprecipitate loaded/lane), using ab70565 at 3 µg/mg of lysate.

Subsequent blotting of immunoprecipitate for the detection of LATS2 was performed using 1µg/ml of ab70565. Detection was by chemiluminescence.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LATS1 +LATS2 antibody (ab70565)

ab70565 (2µg/ml) staining LATS2 in human lung using an automated system (DAKO Autostainer Plus). Using this protocol there is strong nuclear staining in pneumocytes. Sections were rehydrated and antigen retrieved with the Dako 3-in-1 AR buffer citrate pH 6.0 in a DAKO PT Link. Slides were peroxidase blocked in 3% H₂O₂ in methanol for 10 minutes. They were then blocked with Dako Protein block for 10 minutes (containing casein 0.25% in PBS) then incubated with primary antibody for 20 minutes and detected with Dako Envision Flex amplification kit for 30 minutes. Colorimetric detection was completed with Diaminobenzidine for 5 minutes. Slides were counterstained with Haematoxylin and coverslipped under DePeX. Please note that, for manual staining, optimization of primary antibody concentration and incubation time is recommended. Signal amplification may be required.



Western blot - Anti-LATS1 +LATS2 antibody (ab70565)

All lanes : Anti-LATS1 +LATS2 antibody (ab70565) at 0.4 µg/ml

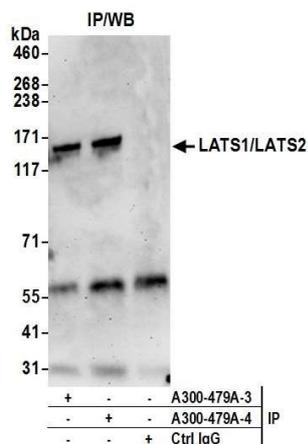
Lane 1 : HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) cell lysate. at 50 µg

Lane 2 : HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) cell lysate. at 15 µg

Lane 3 : HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) cell lysate. at 5 µg

Lane 4 : NIH/3T3 (mouse embryo fibroblast cell line) cell lysate. at 50 µg

Predicted band size: 120 kDa



Immunoprecipitation - Anti-LATS1 +LATS2 antibody (ab70565)

LATS1 +LATS2 was immunoprecipitated from 1 mg HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) cell lysate with 6 µg of ab70565. Western blot was performed from the immunoprecipitate using ab70565 at 1 µg/ml.

Lane 1: ab70565 IP in HEK-293T whole cell lysate.

Lane 2: ab70565 IP in HEK-293T whole cell lysate.

Lane 3: control IgG instead of ab70565 in HEK-293T whole cell lysate.

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