abcam

Product datasheet

Anti-PTIP antibody ab70434

4 References 画像数 2

製品の概要

製品名	Anti-PTIP antibody
製品の詳細	Rabbit polyclonal to PTIP
由来種	Rabbit
アプリケーション	**適用あり:** WB, IP
種交差性	**交差種:** Human **交差が予測される動物種:** Pig, Chimpanzee, Orangutan
免疫原	Synthetic peptide corresponding to Human PTIP (N terminal). Synthetic peptide mapping to a region between residues 1 and 50 of Human PTIP, using the numbering given in Jowsey, Doherty and Rouse, 2004, J. Biol. Chem. 279(53):55562-55569 Database link: **Q6ZW49-6**
ポジティブ・コントロール	Whole cell lysate from 293T cells
特記事項	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
バッファー	pH: 7 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

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ab70434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		1/2500 - 1/25000. Detects a band of approximately 130 kDa (predicted molecular weight: 118 kDa).
IP		Use at 5-10 µg/mg of lysate.

ターゲット情報

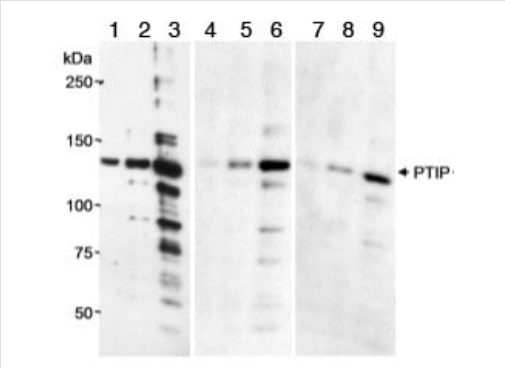
機能 Involved in DNA damage response and in transcriptional regulation through histone methyltransferase (HMT) complexes. Plays a role in early development. In DNA damage response is required for cell survival after ionizing radiation. In vitro shown to be involved in the homologous recombination mechanism for the repair of double-strand breaks (DSBs). Its localization to DNA damage foci requires RNF8 and UBE2N. Recruits TP53BP1 to DNA damage foci and, at least in particular repair processes, effective DNA damage response appears to require the association with TP53BP1 phosphorylated by ATM at 'Ser-25'. Together with TP53BP1 regulates ATM association. Recruits PA1 to sites of DNA damage and the PA1:PAXIP1 complex is required for cell survival in response to DNA damage; the function is probbaly independent of MLL-containing histone methyltransferase (HMT) complexes. Promotes ubiquitination of PCNA following UV irradiation and may regulate recruitment of polymerase eta and RAD51 to chromatin after DNA damage. Proposed to be involved in transcriptional regulation by linking MLL-containing histone methyltransferase (HMT) complexes to gene promoters by interacting with promoter-bound transcription factors such as PAX2. Associates with gene promoters that are known to be regulated by MLL2. During immunoglobulin class switching in activated B cells is involved in trimethylation of histone H3 at 'Lys-4' and in transcription initiation of downstream switch regions at the immunoglobulin heavy-chain (Igh) locus; this function appears to involve the recruitment of MLL-containing HMT complexes.

配列類似性 Contains 6 BRCT domains.

ドメイン The BRCT 5 and 6 domains function as a single module and are necessary and sufficient for in vitro phospho-specific binding (substrates phosphorylated by the kinases ataxia telangiectasia-mutated (ATM), ataxia telangiectasia and RAD3-related (ATR) in response to gamma irradiation). In contrast, in vivo two pairs of BRCT domains (3-6) bind to phosphorylated TP53BP1 much more efficiently.

細胞内局在 Nucleus matrix. Localizes to DNA damage foci upon ionizing radiation.

画像



Western blot - Anti-PTIP antibody (ab70434)

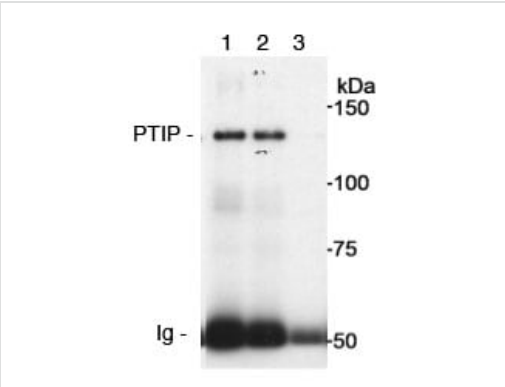
Lanes 1 & 4 & 7 : Anti-PTIP antibody (ab70434) at 0.25 µg/ml
Lanes 2 & 5 & 8 : Anti-PTIP antibody (ab70434) at 0.1 µg/ml
Lanes 3 & 6 & 9 : Anti-PTIP antibody (ab70434) at 0.025 µg/ml

Lanes 1 & 4 & 7 : Whole cell lysate from 293T cells at 5 µg
Lanes 2 & 5 & 8 : Whole cell lysate from 293T cells at 15 µg
Lanes 3 & 6 & 9 : Whole cell lysate from 293T cells at 50 µg

Developed using the ECL technique.

Predicted band size: 118 kDa
Observed band size: 130 kDa

Exposure time: 30 seconds



Immunoprecipitation - Anti-PTIP antibody (ab70434)

30ug of whole cell lysate from 293T cells were immunoprecipitated using ab70434 at 10, 5 and 1ug/mg of lysate respectively in lanes 1, 2 and 3. For the subsequent blot ab70434 was used at 0.25ug/ml.

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