abcam

Product datasheet

Anti-FANCI antibody ab74332

4 References　画像数 2

製品の概要

製品名	Anti-FANCI antibody
製品の詳細	Rabbit polyclonal to FANCI
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:** Mouse, Human **交差が予測される動物種:** Horse, Dog, Pig, Chimpanzee, Rhesus monkey, Gorilla, Orangutan, Bat
免疫原	Synthetic peptide corresponding to a region between residue 1025 and 1075 of human KIAA1794 (NP_060663.2)
ポジティブ・コントロール	Whole cell lysates from HeLa and 293T cells.

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	Preservative: 0.09% Sodium Azide Constituents: 0.1% BSA, Tris buffered saline
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 **ab74332** in the following tested applications.

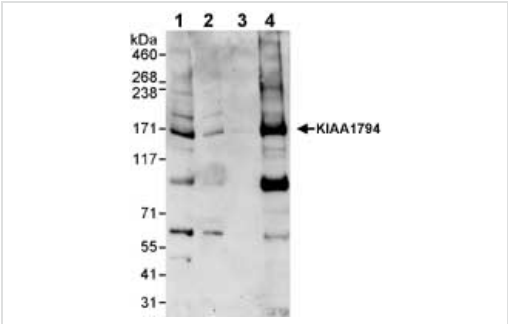
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Abreviews	特記事項
WB		1/2000 - 1/10000. Predicted molecular weight: 149 kDa.
IP		Use at 2-5 µg/mg of lysate.

ターゲット情報

機能	Required for maintenance of chromosomal stability. Involved in the repair of DNA double-strand breaks by homologous recombination and in the repair of DNA cross-links. Participates in S phase and G2 phase checkpoint activation upon DNA damage. Promotes FANCD2 ubiquitination and recruitment to DNA repair sites.
関連疾患	Defects in FANCI are a cause of Fanconi anemia complementation group I (FANCI) [MIM:609053]. It is a disorder affecting all bone marrow elements and resulting in anemia, leukopenia and thrombopenia. It is associated with cardiac, renal and limb malformations, dermal pigmentary changes, and a predisposition to the development of malignancies. At the cellular level it is associated with hypersensitivity to DNA-damaging agents, chromosomal instability (increased chromosome breakage) and defective DNA repair.
ドメイン	The C-terminal 30 residues are probably required for function in DNA repair.
翻訳後修飾	Monoubiquitinated on Lys-523 during S phase and upon genotoxic stress. Deubiquitinated by USP1 as cells enter G2/M, or once DNA repair is completed. Monoubiquitination requires the FANCA-FANCB-FANCC-FANCE-FANCF-FANCG-FANCM complex. Ubiquitination is required for binding to chromatin, DNA repair, and normal cell cycle progression. Phosphorylated in response to DNA damage by ATM and/or ATR.
細胞内局在	Nucleus. Concentrates in nuclear foci upon genotoxic stress.

画像

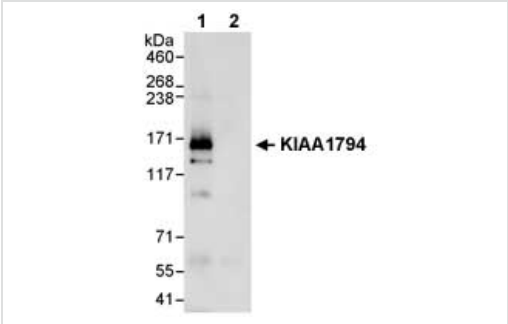


Western blot - Anti-FANCI antibody (ab74332)

All lanes : Anti-FANCI antibody (ab74332) at 0.04 µg/ml

Lane 1 : Whole HeLa cell lysate at 50 µg
Lane 2 : Whole HeLa cell lysate at 15 µg
Lane 3 : Whole HeLa cell lysate at 5 µg
Lane 4 : Whole 293T cell lysate at 50 µg

Predicted band size: 149 kDa
Additional bands at: 100 kDa, 65 kDa. We are unsure as to the identity of these extra bands.



Immunoprecipitation - Anti-FANCI antibody (ab74332)

Detection of Human KIAA1794 by Immunoprecipitation in Whole cell lysate from HeLa cells (1 mg for IP, 20% of IP loaded) using ab74332 at 3 µg/mg for IP (Lane 1) and at 1 µg/ml for subsequent WB detection. Lane 2 represents IgG control IP.

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