

Anti-TopBP1 antibody ab2402

★★★★★ [15 Abreviews](#) [40 References](#) [3 图像](#)

概述

产品名称	Anti-TopBP1抗体
描述	兔多克隆抗体to TopBP1
宿主	Rabbit
经测试应用	适用于: WB, IP
种属反应性	与反应: Mouse, Human
免疫原	Synthetic peptide within Human TopBP1 aa 1400-1500. The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please contact our Scientific Support team to discuss your requirements. NP_008958.1 (GeneID 11073). Database link: Q92547
阳性对照	WB: HeLa, HEK-293T, TCMK-1, NIH/3T3 and Jurkat whole cell lysate. IP: TopBP1 in HeLa whole cell lysate.
常规说明	<p>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.</p> <p>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</p>

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
存储溶液	pH: 7 Preservative: 0.1% Sodium azide Constituents: 0.021% PBS, 1.764% Sodium citrate, 1.815% Tris
纯度	Immunogen affinity purified
纯化说明	Antibody was affinity purified using the peptide immobilized on solid support. Antibody concentration was determined by extinction coefficient: absorbance at 280 nm of 1.4 equals 1.0

	mg of IgG.
克隆	多克隆
同种型	IgG

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab2402于以下的经测试应用

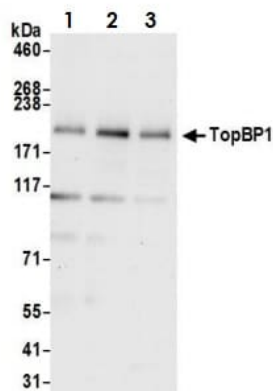
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB	★★★★★ (8)	1/2000 - 1/10000. Detects a band of approximately 200 kDa (predicted molecular weight: 173.3 kDa).
IP	★★★★★ (2)	Use at 2-5 µg/mg of lysate.

靶标

功能	Required for DNA replication. Plays a role in the rescue of stalled replication forks and checkpoint control. Binds double-stranded DNA breaks and nicks as well as single-stranded DNA. Recruits the SWI/SNF chromatin remodeling complex to E2F1-responsive promoters. Down-regulates E2F1 activity and inhibits E2F1-dependent apoptosis during G1/S transition and after DNA damage. Induces a large increase in the kinase activity of ATR.
组织特异性	Highly expressed in heart, brain, placenta, lung and kidney.
序列相似性	Contains 8 BRCT domains.
翻译后修饰	Phosphorylated on serine and threonine residues in response to X-ray irradiation. Ubiquitinated and degraded by the proteasome. X-ray irradiation reduces ubiquitination.
细胞定位	Nucleus. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, cytoskeleton, spindle pole. Chromosome. Detected on unpaired autosomes in meiotic prophase cells. Detected on X and Y chromosomes during later stages of prophase. Colocalizes with ATR and H2AFX at unsynapsed chromosome cores during prophase (By similarity). Has a uniform nuclear distribution during G phase. Colocalizes with BRCA1 at stalled replication forks during S phase. In mitotic cells it colocalizes with BRCA1 at spindle poles and centrosomes during metaphase and anaphase. Detected in discrete foci together with PML and numerous DNA repair enzymes after DNA damage by alkylating agents, UV or gamma irradiation. Localizes to sites of DNA damage in a H2AX- independent manner.

图片



Western blot - Anti-TopBP1 antibody (ab2402)

All lanes : Anti-Cytokeratin 10 antibody [LHP1] ([ab2409](#)) at 0.1 µg/ml

Lane 1 : HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate

Lane 2 : HEK-293T (Human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate

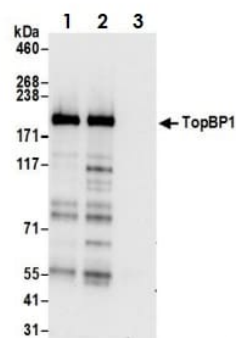
Lane 3 : Jurkat (Human T cell leukemia cell line from peripheral blood) whole cell lysate

Lysates/proteins at 15 µg per lane.

Predicted band size: 173.3 kDa

Exposure time: 10 seconds

Lysates prepared using NETN lysis buffer.



Immunoprecipitation - Anti-TopBP1 antibody (ab2402)

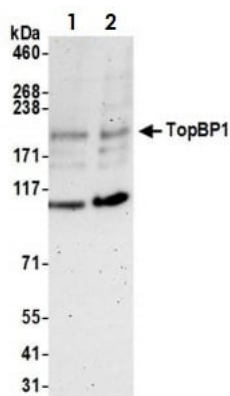
Samples: Whole cell lysate (1.0 mg per IP reaction; 20% of IP loaded) from HeLa cells prepared using NETN lysis buffer.

Antibodies: [ab2409](#) used for IP at 3 µg per reaction.

Two lots tested (Lanes 1 and 2).

Lane 3 is Control IgG.

For blotting immunoprecipitated TopBP1, [ab2409](#) was used at 0.4 µg/ml. Detection: Chemiluminescence with an exposure time of 10 seconds.



Western blot - Anti-TopBP1 antibody (ab2402)

All lanes : Anti-Cytokeratin 10 antibody [LHP1] (**ab2409**) at 0.1 $\mu\text{g/ml}$

Lane 1 : TCMK-1 (Mouse kidney epithelial cell line) whole cell lysate

Lane 2 : NIH/3T3 (Mouse embryonic fibroblast cell line) whole cell lysate

Lysates/proteins at 50 μg per lane.

Predicted band size: 173.3 kDa

Exposure time: 3 minutes

Lysates prepared using NETN lysis buffer.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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