




Anti-PCNA antibody [PCNA/694] ab220208

1 References **3 图像**

概述

| | |
|-------|---|
| 产品名称 | Anti-PCNA抗体[PCNA/694] |
| 描述 | 小鼠单克隆抗体[PCNA/694] to PCNA |
| 宿主 | Mouse |
| 经测试应用 | 适用于: WB, IHC-P, Flow Cyt |
| 种属反应性 | 与反应: Human 预测可用于: Mouse, Rat, Chicken, Cow, Xenopus laevis, Zebrafish, Cynomolgus monkey, Chinese hamster  |
| 免疫原 | Recombinant full length protein corresponding to Human PCNA aa 1 to the C-terminus. Database link: <u>P12004</u> <div>  Run BLAST with  Run BLAST with </div> |
| 阳性对照 | WB: HepG2 cell lysate; IHC-P: Human tonsil tissue; Flow Cyt: HeLa cells. |
| 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 long term. Avoid freeze / thaw cycle. |
| 存储溶液 | pH: 7.2 Preservative: 0.05% Sodium azide Constituents: 0.05% BSA, PBS |
| 纯度 | Protein A purified |
| 克隆 | 单克隆 |
| 克隆编号 | PCNA/694 |

| | |
|------|-------|
| 同种型 | IgG2a |
| 轻链类型 | kappa |

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab220208于以下的经测试应用

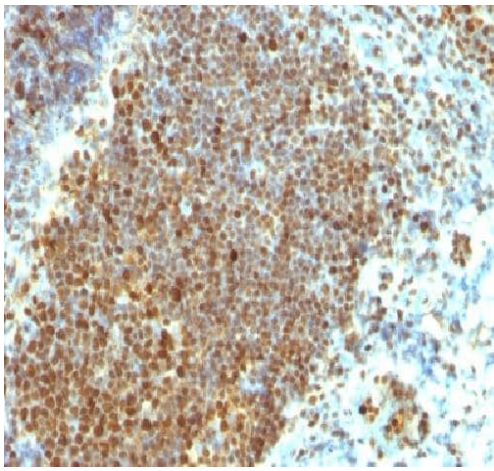
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

| 应用 | Ab评论 | 说明 |
|----------|------|--|
| WB | | Use a concentration of 1 - 2 µg/ml. Predicted molecular weight: 29 kDa. |
| IHC-P | | Use a concentration of 0.25 - 0.5 µg/ml. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. Primary incubation for 30 minutes at room temperature |
| Flow Cyt | | Use 1-2µg for 10 ⁶ cells. |

靶标

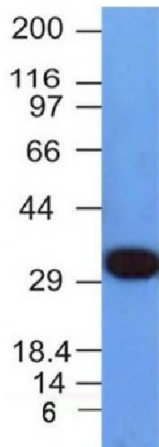
| | |
|-------|--|
| 功能 | This protein is an auxiliary protein of DNA polymerase delta and is involved in the control of eukaryotic DNA replication by increasing the polymerase's processibility during elongation of the leading strand. Induces a robust stimulatory effect on the 3'-5' exonuclease and 3'-phosphodiesterase, but not apurinic-apyrimidinic (AP) endonuclease, APEX2 activities. Has to be loaded onto DNA in order to be able to stimulate APEX2. |
| 序列相似性 | Belongs to the PCNA family. |
| 翻译后修饰 | Upon methyl methanesulfonate-induced DNA damage, mono-ubiquitinated by the UBE2B-RAD18 complex on Lys-164. This induces non-canonical polyubiquitination on Lys-164 through 'Lys-63' linkage of ubiquitin moieties by the E2 complex UBE2N-UBE2V2 and the E3 ligases, HLTF, RNF8 and SHPRH, which is required for DNA repair. 'Lys-63' polyubiquitination prevents genomic instability on DNA damage. Monoubiquitination at Lys-164 also takes place in undamaged proliferating cells, and is mediated by the DCX(DTL) complex, leading to enhance PCNA-dependent translesion DNA synthesis. Acetylated in response to UV irradiation. Acetylation disrupts interaction with NUDT15 and promotes degradation. |
| 细胞定位 | Nucleus. Forms nuclear foci representing sites of ongoing DNA replication and vary in morphology and number during S phase. Together with APEX2, is redistributed in discrete nuclear foci in presence of oxidative DNA damaging agents. |

图片



Immunohistochemical analysis of formalin-fixed, paraffin-embedded human tonsil tissue labeling PCNA with ab220208 at 1 µg/mL.

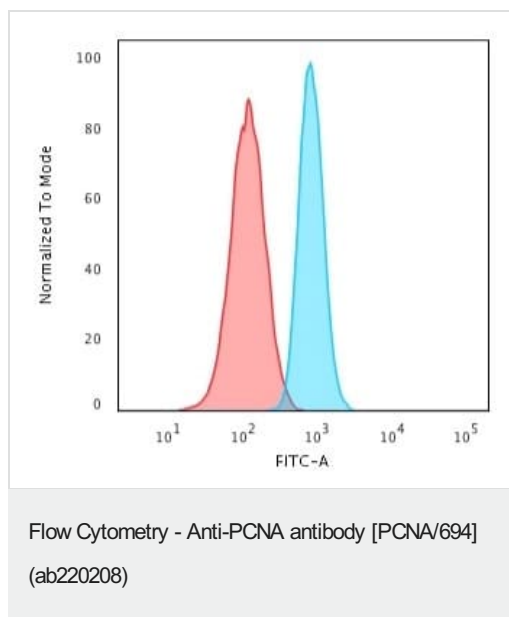
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PCNA antibody [PCNA/694] (ab220208)



Anti-PCNA antibody [PCNA/694] (ab220208) at 1 µg/ml + HepG2 cell lysate

Predicted band size: 29 kDa

Western blot - Anti-PCNA antibody [PCNA/694] (ab220208)



Flow Cytometry analysis of PFA-fixed HeLa (human epithelial cell line from cervix adenocarcinoma) cells labeling PCNA with ab220208 at $2 \mu\text{g}/10^6$ cells followed by Goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).

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