

### Anti-JAK1 antibody ab125051

★★★★★ [1 Abreviews](#) [9 References](#) [4 图像](#)

#### 概述

产品名称	Anti-JAK1抗体
描述	兔多克隆抗体to JAK1
宿主	Rabbit
经测试应用	适用于: ICC/IF, WB, IHC-P
种属反应性	与反应: Rat, Human 预测可用于: Mouse, Dog, Pig, Chimpanzee, Macaque monkey, Gorilla, Chinese hamster 
免疫原	Synthetic peptide corresponding to Human JAK1 aa 1100 to the C-terminus (C terminal) conjugated to keyhole limpet haemocyanin. (Peptide available as <a href="#">ab140406</a> )
阳性对照	ICC/IF: HCT116 cells. IHC-P: Human breast fibroadenocarcinoma tissue. WB : PC-12 (rat adrenal gland pheochromocytoma cell line) whole cell lysate and HCT 116 (human colorectal carcinoma cell line) 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&amp;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 or -80°C. Avoid freeze / thaw cycle.
存储溶液	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS
	Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.

纯度	Immunogen affinity purified
克隆	多克隆
同种型	IgG

## 应用

**The Abpromise guarantee**      **Abpromise™**承诺保证使用ab125051于以下的经测试应用

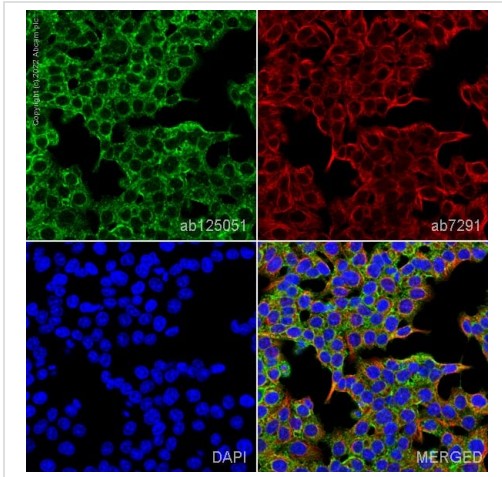
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
ICC/IF		Use a concentration of 5 µg/ml.
WB	★★★★★ (1)	Use a concentration of 1 µg/ml. Detects a band of approximately 132 kDa (predicted molecular weight: 132 kDa).
IHC-P		Use a concentration of 10 µg/ml.

## 靶标

功能	Tyrosine kinase of the non-receptor type, involved in the IFN-alpha/beta/gamma signal pathway. Kinase partner for the interleukin (IL)-2 receptor.
组织特异性	Expressed at higher levels in primary colon tumors than in normal colon tissue. The expression level in metastatic colon tumors is comparable to the expression level in normal colon tissue.
序列相似性	Belongs to the protein kinase superfamily. Tyr protein kinase family. JAK subfamily. Contains 1 FERM domain. Contains 1 protein kinase domain. Contains 1 SH2 domain.
结构域	Possesses two phosphotransferase domains. The second one probably contains the catalytic domain (By similarity), while the presence of slight differences suggest a different role for domain 1. The FERM domain mediates interaction with JAKMIP1.
细胞定位	Endomembrane system. Wholly intracellular, possibly membrane associated.

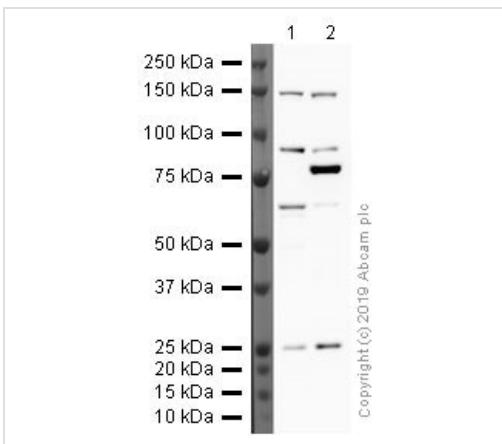
## 图片



Immunocytochemistry/ Immunofluorescence - Anti-JAK1 antibody (ab125051)

ab125051 staining JAK1 in HCT116 cells. The cells were fixed with 100% methanol (5 min), permeabilized with 0.1% PBS-Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1%PBS-Tween for 1h. The cells were then incubated overnight at 4°C with ab125051 at 5µg/ml and **ab7291**, Mouse monoclonal [DM1A] to alpha Tubulin - Loading Control. Cells were then incubated with **ab150081**, Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 488), pre-adsorbed at 1/1000 dilution (shown in green) and **ab150120**, Goat polyclonal Secondary Antibody to Mouse IgG - H&L (Alexa Fluor® 594), pre-adsorbed at 1/1000 dilution (shown in pseudocolour red). Nuclear DNA was labelled with DAPI (shown in blue).

Image was acquired with a confocal microscope (Leica-Microsystems TCS SP8) and a single confocal section is shown.



Western blot - Anti-JAK1 antibody (ab125051)

**All lanes** : Anti-JAK1 antibody (ab125051) at 1 µg/ml

**Lane 1** : PC-12 (rat adrenal gland pheochromocytoma cell line) whole cell lysate

**Lane 2** : HCT 116 (human colorectal carcinoma cell line) whole cell lysate

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes** : Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/50000 dilution

**Predicted band size:** 132 kDa

**Observed band size:** 140,60,80,90 kDa

**Exposure time:** 4 minutes

**Gel type:** MOPS

**Blocking buffer:** 1% milk block



Western blot - Anti-JAK1 antibody (ab125051)

Anti-JAK1 antibody (ab125051) at 1 µg/ml + PC12 (Rat adrenal pheochromocytoma cell line) Whole Cell Lysate at 10 µg

**Secondary**

Goat Anti-Rabbit IgG H&L (HRP) preadsorbed ([ab97080](#)) at 1/5000 dilution

Developed using the ECL technique.

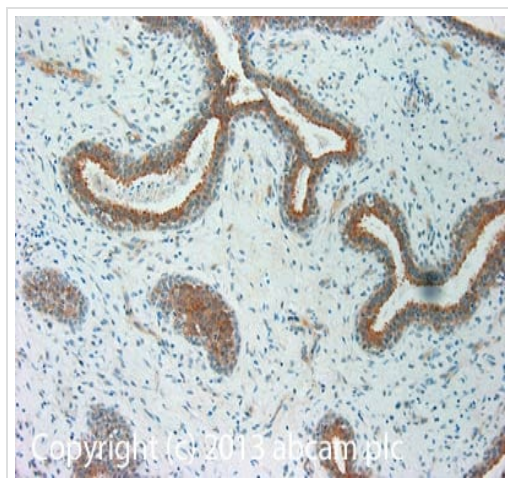
Performed under reducing conditions.

**Predicted band size:** 132 kDa

**Observed band size:** 132 kDa

**Additional bands at:** 43 kDa. We are unsure as to the identity of these extra bands.

**Exposure time:** 8 minutes



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-JAK1 antibody (ab125051)

IHC image of JAK1 staining in Human breast fibroadenocarcinoma formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab125051, 10µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX. For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

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