

### Anti-Lipocalin-2 / NGAL antibody [5G5] ab23477

敲除验证

★★★★★ [3 Abreviews](#) [16 References](#) [5 图像](#)

#### 概述

产品名称	Anti-Lipocalin-2 / NGAL抗体[5G5]
描述	小鼠单克隆抗体[5G5] to Lipocalin-2 / NGAL
宿主	Mouse
特异性	ab23477 is specific for Lipocalin-2 / NGAL, native and denatured forms.
经测试应用	<b>适用于:</b> WB, IHC-FoFr, IHC-P
种属反应性	<b>与反应:</b> Human
免疫原	Full length native protein (purified) corresponding to Human Lipocalin-2/ NGAL. Full length native human neutrophil gelatinase associated lipocalin isolated from neutrophils.
阳性对照	WB: SW480 cell lysate. IHC-P: PaCa, chronic pancreatitis and normal pancreas tissue sections.
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). Store at 4°C or -20°C. Avoid freeze / thaw cycle.
存储溶液	<p>pH: 7.40</p> <p>Preservative: 0.097% Sodium azide</p> <p>Constituents: 0.0268% PBS, 2.9% Sodium chloride</p>
纯度	Protein G purified
克隆	单克隆
克隆编号	5G5
骨髓瘤	x63-Ag8.653

同种型 IgG1

轻链类型 kappa

应用

The Abpromise guarantee Abpromise™承诺保证使用ab23477于以下的经测试应用

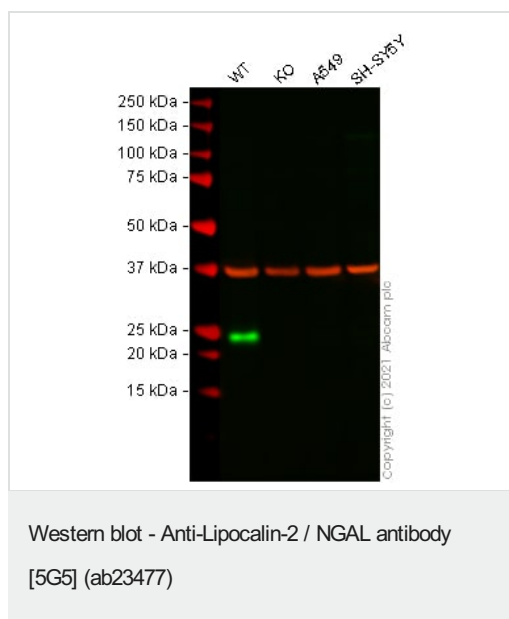
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB	★★★★★ (2)	1/1000. Predicted molecular weight: 22 kDa.
IHC-FoFr		Use at an assay dependent concentration.
IHC-P	★★★★★ (1)	Use at an assay dependent concentration.

靶标

功能	Iron-trafficking protein involved in multiple processes such as apoptosis, innate immunity and renal development. Binds iron through association with 2,5-dihydroxybenzoic acid (2,5-DHBA), a siderophore that shares structural similarities with bacterial enterobactin, and delivers or removes iron from the cell, depending on the context. Iron-bound form (holo-24p3) is internalized following binding to the SLC22A17 (24p3R) receptor, leading to release of iron and subsequent increase of intracellular iron concentration. In contrast, association of the iron-free form (apo-24p3) with the SLC22A17 (24p3R) receptor is followed by association with an intracellular siderophore, iron chelation and iron transfer to the extracellular medium, thereby reducing intracellular iron concentration. Involved in apoptosis due to interleukin-3 (IL3) deprivation: iron-loaded form increases intracellular iron concentration without promoting apoptosis, while iron-free form decreases intracellular iron levels, inducing expression of the proapoptotic protein BCL2L11/BIM, resulting in apoptosis. Involved in innate immunity, possibly by sequestering iron, leading to limit bacterial growth.
组织特异性	Expressed in bone marrow and in tissues that are prone to exposure to microorganism. High expression is found in bone marrow as well as in uterus, prostate, salivary gland, stomach, appendix, colon, trachea and lung. Not found in the small intestine or peripheral blood leukocytes.
序列相似性	Belongs to the calycin superfamily. Lipocalin family.
细胞定位	Secreted. Upon binding to the SLC22A17 (24p3R) receptor, it is internalized.

图片



**All lanes :** Anti-Lipocalin-2 / NGAL antibody [5G5] (ab23477) at 1/1000 dilution

**Lane 1 :** Wild-type SW480 (Human colorectal adenocarcinoma cell line) whole cell lysate

**Lane 2 :** LCN2 knockout SW480 (Human colorectal adenocarcinoma cell line) whole cell lysate

**Lane 3 :** A549 (Human lung carcinoma cell line) whole cell lysate

**Lane 4 :** SH-SY5Y (Human neuroblastoma cell line from bone marrow) whole cell lysate

Lysates/proteins at 20 µg per lane.

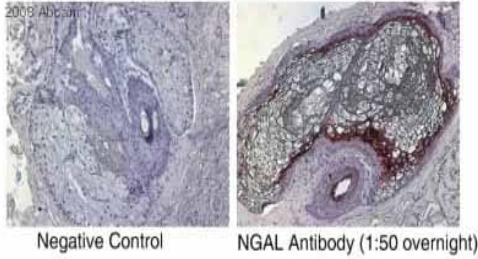
Performed under reducing conditions.

**Predicted band size:** 22 kDa

**Observed band size:** 23 kDa

**Lanes 1 -4:** Merged signal (red and green). Green - ab23477 observed at 23 kDa. Red - loading control **ab181602** (Rabbit Anti-GAPDH antibody [EPR16891]) observed at 37 kDa.

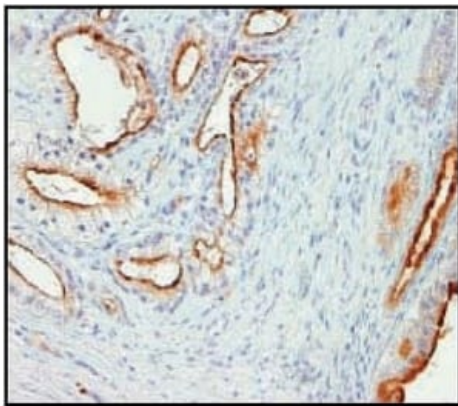
ab23477 was shown to react with Lipocalin-2 / NGAL in wild-type SW480 cells in Western blot with loss of signal observed in LCN2 knockout cell line **ab270486** (knockout cell lysate **ab270509**). Wild-type SW480 and LCN2 knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3 % milk in TBS-T (0.1 % Tween®) before incubation with ab23477 and **ab181602** (Rabbit Anti-GAPDH antibody [EPR16891]) overnight at 4 °C at a 1 in 1000 dilution and a 1 in 20000 dilution respectively. Blots were incubated with Goat anti-Mouse IgG H&L (IRDye® 800CW) preabsorbed (**ab216772**) and Goat anti-Rabbit IgG H&L (IRDye® 680RD) preabsorbed (**ab216777**) secondary antibodies at 1 in 20000 dilution for 1 h at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Lipocalin-2 / NGAL antibody [5G5] (ab23477)

This image is courtesy of an anonymous Abreview

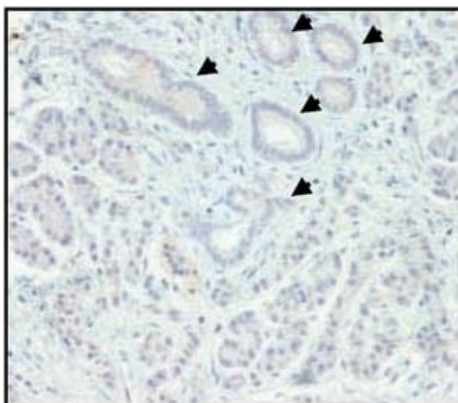
ab23477 staining human skin tissue sections by IHC-P. Sections were fixed in 10% neutral buffered formalin and subjected to heat mediated antigen retrieval prior to blocking with 1% BSA for 1 hour at 25°C. The primary antibody was diluted 1/50 and incubated with the sample for 20 hours at 4°C. A biotinylated horse anti-mouse antibody diluted 1/200 was used as the secondary.



**(PaCa)**

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human PaCa tissue sections labelling Lipocalin 2 with ab23477.

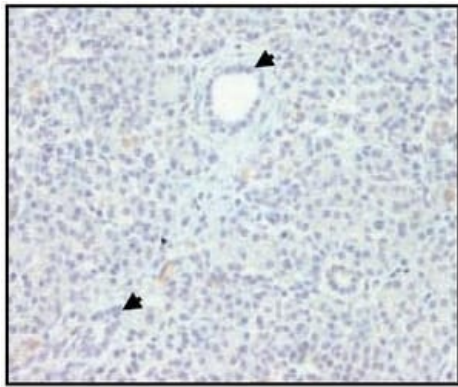
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Lipocalin-2 / NGAL antibody [5G5] (ab23477)



**Chronic pancreatitis (CP)**

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human chronic pancreatitis tissue sections labelling Lipocalin-2 / NGAL with ab23477.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Lipocalin-2 / NGAL antibody [5G5] (ab23477)



**Normal pancreas**

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Lipocalin-2 / NGAL antibody [5G5] (ab23477)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of normal human pancreas tissue sections labelling Lipocalin-2 / NGAL with ab23477.

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