

## Product datasheet

# Anti-Lipocalin-2 / NGAL antibody ab41105

★★★★★ 7 Abreviews 5 References 画像数 4

### 製品の概要

製品名	Anti-Lipocalin-2 / NGAL antibody
製品の詳細	Rabbit polyclonal to Lipocalin-2 / NGAL
由来種	Rabbit
特異性	A customer has submitted a positive Abreview for rat samples in IHC. However, customers have experienced problems with rat samples and this is likely due to the low homology between the immunogen and the rat protein (30%). Some batches of this antibody may work in rat, but this is not batch tested.
アプリケーション	<b>適用あり:</b> WB, IHC-P, ICC/IF
種交差性	<b>交差種:</b> Human
免疫原	Synthetic peptide corresponding to Human Lipocalin-2/ NGAL aa 50-150 conjugated to Keyhole Limpet Haemocyanin (KLH). (Peptide available as <a href="#">ab41759</a> , <a href="#">ab41759</a> , <a href="#">ab41759</a> , <a href="#">ab41759</a> , <a href="#">ab41758</a> )
ポジティブ・コントロール	ab41105 gave a positive result in Human Colon Tissue Lysate.

### 製品の特性

製品の状態	Liquid
保存方法	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.
バッファー	Preservative: 0.02% Sodium Azide Constituents: 1% BSA, PBS, pH 7.4
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 **ab41105** in the following tested applications.

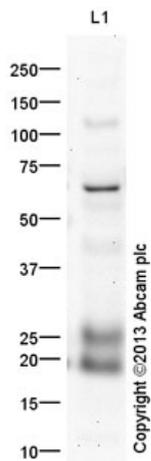
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Abreviews	特記事項
WB	★★★★★	Use a concentration of 1 µg/ml. Detects a band of approximately 21 kDa (predicted molecular weight: 23 kDa).
IHC-P	★★★★★	1/250 - 1/1000.
ICC/IF		Use a concentration of 5 µg/ml.

## ターゲット情報

<b>機能</b>	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.
<b>組織特異性</b>	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.
<b>配列類似性</b>	Belongs to the calycin superfamily. Lipocalin family.
<b>細胞内局在</b>	Secreted. Upon binding to the SLC22A17 (24p3R) receptor, it is internalized.

## 画像



Western blot - Anti-Lipocalin-2 / NGAL antibody (ab41105)

Anti-Lipocalin-2 / NGAL antibody (ab41105) at 1 µg/ml + Human colon tissue lysate - total protein (ab30051) at 30 µg

**Secondary**

Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/10000 dilution

Developed using the ECL technique.

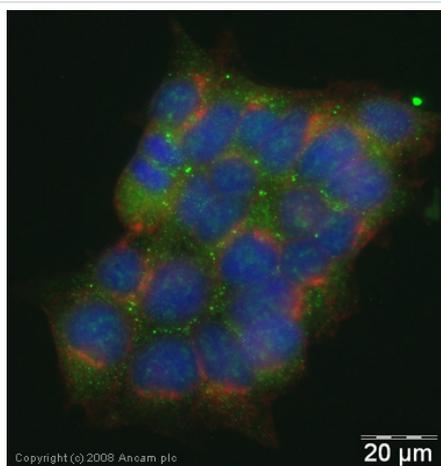
Performed under reducing conditions.

**Predicted band size:** 23 kDa

**Observed band size:** 21 kDa

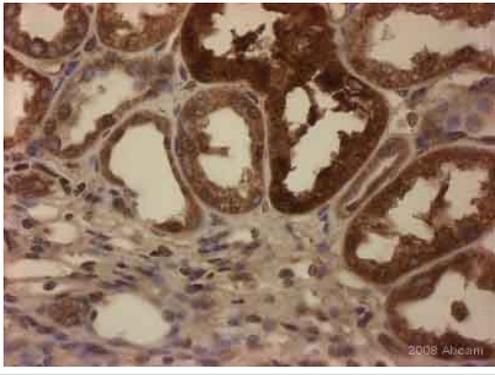
**Additional bands at:** 25 kDa, 70 kDa. We are unsure as to the identity of these extra bands.

**Exposure time:** 12 minutes



Immunocytochemistry/ Immunofluorescence - Anti-Lipocalin-2 / NGAL antibody (ab41105)

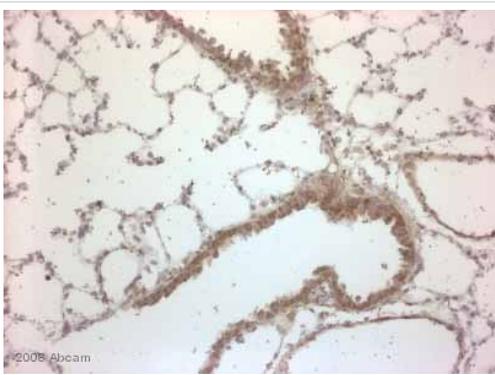
ICC/IF image of ab41105 stained human Hek293 cells. The cells were methanol fixed (10 min), permeabilised in 0.1% PBS-Tween (20 min) and incubated with the antibody (ab41105, 5µg/ml) for 1h at room temperature. 1%BSA / 10% normal goat serum / 0.3M glycine was used to block non-specific protein-protein interactions. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red). DAPI was used to stain the cell nuclei (blue).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Lipocalin-2 / NGAL antibody (ab41105)

This image is courtesy of an Abreview submitted by Antibody Solutions Ltd.

ab41105 staining Lipocalin-2 / NGAL in human lung tissue by Immunohistochemistry (Formalin/PFA-fixed paraffin embedded sections). Tissue underwent fixation in formaldehyde, heat mediated antigen retrieval in Citrate buffer pH6.0 and blocking for 15 minutes at 20°C (5 minutes peroxidase block and 10 minutes protein blocks). The primary antibody was diluted 1/250 or 1/1000 and incubated with sample for 45 minutes at 20°C. A HRP-conjugated goat polyclonal to rabbit IgG was used undiluted as the secondary.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Lipocalin-2 / NGAL antibody (ab41105)

This image is courtesy of an Abreview submitted by Antibody Solutions Ltd.

ab41105 staining Lipocalin-2 / NGAL in rat lung tissue section by Immunohistochemistry (Formalin/PFA-fixed paraffin embedded sections). Tissue underwent fixation in formaldehyde, heat mediated antigen retrieval in Citrate buffer pH6.0 and blocking for 15 minutes at 20°C (5 minutes peroxidase block and 10 minutes protein blocks). The primary antibody was diluted 1/250 or 1/1000 and incubated with sample for 45 minutes at 20°C. A HRP-conjugated goat polyclonal to rabbit IgG was used undiluted as the secondary.

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