# Anti-LCN2 antibody

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|---|---|
| **Cat. No.** | ml261026 |
| **Package** | 25 µl/100 µl/200 µl |
| **Storage** | -20°C, pH7.4 PBS, 0.05% NaN3, 40% Glycerol |

**Product overview**

| | |
|---|---|
| **Description** | Anti-LCN2 rabbit polyclonal antibody |
| **Applications** | ELISA, WB, IHC |
| **Immunogen** | Synthetic peptide of human LCN2 |
| **Reactivity** | Human |
| **Content** | 0.6 mg/ml |
| **Host species** | Rabbit |
| **Ig class** | Immunogen-specific rabbit IgG |
| **Purification** | Antigen affinity purification |

**Target information**

| | |
|---|---|
| **Symbol** | LCN2 |
| **Full name** | lipocalin 2 |

| **Synonyms** | 24p3, MSFI, NGAL |
|---|---|
| **Swissprot** | P80188 |

**Target Background**

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 sequestrating iron, leading to limit bacterial growth.
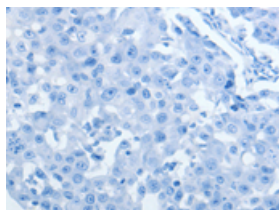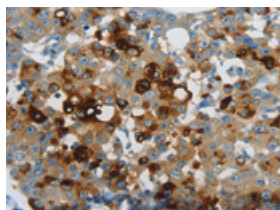
## Applications

### Immunohistochemistry

Predicted cell location: Cytoplasm

Positive control: Human breast cancer

Recommended dilution: 50-200

Predicted cell location: Cytoplasm

Positive control: Human cervical cancer
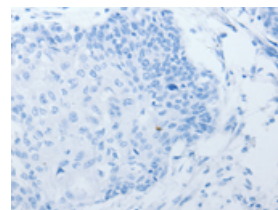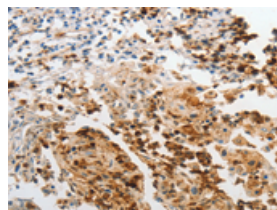
Recommended dilution: 50-200





The image on the left is immunohistochemistry of paraffin-embedded Human breast cancer tissue using ml261026(LCN2 Antibody) at dilution 1/60, on the right is treated with synthetic peptide. (Original magnification: ×200)

The image on the left is immunohistochemistry of paraffin-embedded Human cervical cancer tissue using ml261026(LCN2 Antibody) at dilution 1/60, on the right is treated with synthetic peptide. (Original magnification: ×200)

### Western blotting

Predicted band size:23 kDa

Positive control:Human liver cancer tissue

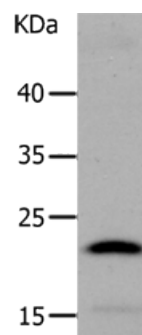Recommended dilution: 1000-5000

Gel: 10%SDS-PAGE

Lysate: 40 μg

Lane: Human liver cancer tissue

Primary antibody: ml261026(LCN2 Antibody) at dilution 1/1050

Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution

Exposure time: 2 minutes

**ELISA**

Recommended dilution: 2000-10000

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