**Product datasheet**

**Anti-Lipocalin-2 / NGAL antibody [EPR5084] ab125075**

**Recombinant RabMab**

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**Overview**

**Product name**
Anti-Lipocalin-2 / NGAL antibody [EPR5084]

**Description**
Rabbit monoclonal [EPR5084] to Lipocalin-2 / NGAL

**Host species**
Rabbit

**Tested applications**
Suitable for: WB, IHC-P, ICC
Unsuitable for: Flow Cyt or IP

**Species reactivity**
Reacts with: Human

**Immunogen**
Synthetic peptide within Human Lipocalin-2/ NGAL aa 50-150. The exact sequence is proprietary. (Peptide available as ab187960)

**Positive control**
Human fetal kidney lysate and SW480 cell lysate.

**General notes**
Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

Our RabMab® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMab® patents.

This product is a recombinant rabbit monoclonal antibody.

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**Properties**

**Form**
Liquid

**Storage instructions**
Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.

**Storage buffer**
pH: 7.20
Preservative: 0.05% Sodium azide
Constituents: 0.1% BSA, 40% Glycerol, 9.85% Tris glycine, 50% Tissue culture supernatant

**Purity**
Tissue culture supernatant

**Clonality**
Monoclonal

**Clone number**
EPR5084

**Isotype**
IgG

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**Applications**

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Our Abpromise guarantee covers the use of ab125075 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tbody>
<tr>
<td>IHC-P</td>
<td>1/100 - 1/250. Antigen retrieval is recommended.</td>
<td></td>
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<tr>
<td>ICC</td>
<td>1/100 - 1/250.</td>
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**Application notes**
Is unsuitable for Flow Cyt or IP.

**Target**

**Function**
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.

**Tissue specificity**
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.

**Sequence similarities**
Belongs to the calycin superfamily. Lipocalin family.

**Cellular localization**
Secreted. Upon binding to the SLC22A17 (24p3R) receptor, it is internalized.

**Images**
Western blot - Anti-Lipocalin-2 / NGAL antibody [EPR5084] (ab125075)

All lanes: Anti-Lipocalin-2 / NGAL antibody [EPR5084] (ab125075) at 1/1000 dilution

Lane 1: Human fetal kidney lysate
Lane 2: SW480 cell lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 23 kDa

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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- We investigate all quality concerns to ensure our products perform to the highest standards

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