

# Anti-LMCD1 antibody [EPR11444] - BSA and Azide free ab242401

Recombinant RabMAb

3 Images

### Overview

Product name	Anti-LMCD1 antibody [EPR11444] - BSA and Azide free
Description	Rabbit monoclonal [EPR11444] to LMCD1 - BSA and Azide free
Host species	Rabbit
Tested applications	<b>Suitable for:</b> ICC/IF, IP, WB <b>Unsuitable for:</b> IHC-P
Species reactivity	<b>Reacts with:</b> Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	ICC/IF: MCF7 cells. IP: LMCD1 IP in human skeletal muscle lysate.
General notes	<p>ab242401 is the carrier-free version of <a href="#">ab179454</a>.</p> <p>Our <b>carrier-free</b> antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our <b>conjugation kits</b> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

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

## Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C. Do Not Freeze.
<b>Storage buffer</b>	pH: 7.2 Constituent: PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR11444
<b>Isotype</b>	IgG

## Applications

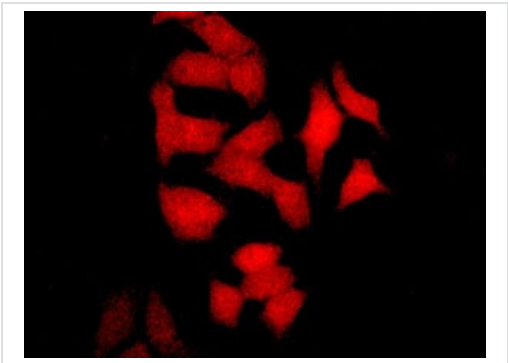
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab242401 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 41 kDa.

**Application notes** Is unsuitable for IHC-P.

## Target

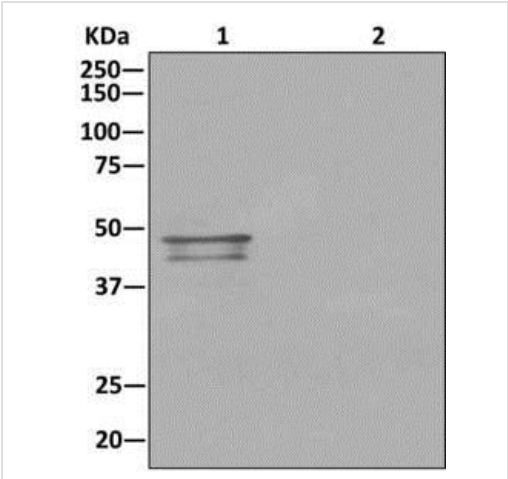
<b>Function</b>	Transcriptional cofactor that restricts GATA6 function by inhibiting DNA-binding, resulting in repression of GATA6 transcriptional activation of downstream target genes. Represses GATA6-mediated trans activation of lung- and cardiac tissue-specific promoters. Inhibits DNA-binding by GATA4 and GATA1 to the cTNC promoter (By similarity). Plays a critical role in the development of cardiac hypertrophy via activation of calcineurin/nuclear factor of activated T cells signaling pathway.
<b>Tissue specificity</b>	Expressed in the heart (at protein level). Expressed in many tissues with highest abundance in skeletal muscle.
<b>Sequence similarities</b>	Contains 2 LIM zinc-binding domains. Contains 1 PET domain.
<b>Domain</b>	The LIM zinc-binding domains and the Cys-rich region mediate interaction with GATA6.
<b>Cellular localization</b>	Cytoplasm. Nucleus. May shuttle between the cytoplasm and the nucleus.



Immunocytochemistry/ Immunofluorescence - Anti-LMCD1 antibody [EPR11444] - BSA and Azide free (ab242401)

Immunofluorescent analysis of MCF7 (Human breast adenocarcinoma cell line) cells labeling LMCD1 with [ab179454](#) at 1/100 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing sodium citrate, sodium chloride, EDTA, PBS, BSA and glycerol ([ab179454](#))



Immunoprecipitation - Anti-LMCD1 antibody [EPR11444] - BSA and Azide free (ab242401)

Western blot analysis on immunoprecipitation pellet from (Lane 1) Human skeletal muscle lysate or (Lane 2) 1X PBS (negative control) using [ab179454](#), and HRP-conjugated anti-rabbit IgG preferentially detecting the non-reduced form of rabbit IgG.

This data was developed using the same antibody clone in a different buffer formulation containing sodium citrate, sodium chloride, EDTA, PBS, BSA and glycerol ([ab179454](#))

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

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**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

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