


## Product datasheet

### Anti-Calumenin antibody [EPR9075] ab137019

Recombinant RabMAb

★★★★★ 1 Abreviews 4 References 5 Images

#### Overview

Product name	Anti-Calumenin antibody [EPR9075]
Description	Rabbit monoclonal [EPR9075] to Calumenin
Host species	Rabbit
Tested applications	<b>Suitable for:</b> Flow Cyt (Intra), WB, IHC-P <b>Unsuitable for:</b> IP
Species reactivity	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat 
Immunogen	Synthetic peptide within Human Calumenin aa 250-350. The exact sequence is proprietary.
Positive control	Human placenta, Jurkat, 293T, K562, and HACAT lysates; Human placenta and urinary bladder transitional carcinoma tissues
General notes	<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>

#### Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
Purity	Protein A purified
Clonality	Monoclonal

Clone number	EPR9075
Isotype	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab137019 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

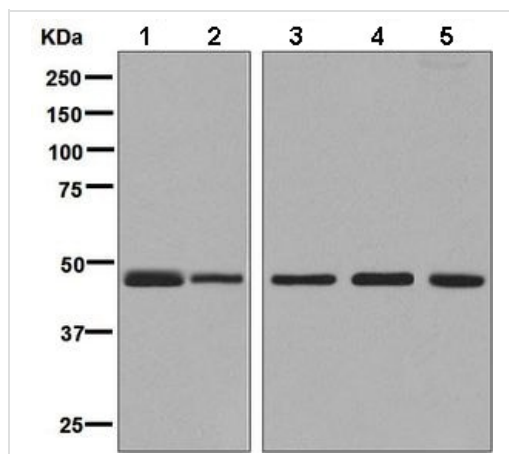
Application	Abreviews	Notes
Flow Cyt (Intra)		1/10 - 1/100. <b>ab172730</b> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB	★★★★★ (1)	1/1000 - 1/10000. Predicted molecular weight: 37 kDa.
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

**Application notes** Is unsuitable for IP.

## Target

<b>Function</b>	Involved in regulation of vitamin K-dependent carboxylation of multiple amino-terminal glutamate residues. Seems to inhibit gamma-carboxylase GGCX. Binds 7 calcium ions with a low affinity.
<b>Tissue specificity</b>	Ubiquitously expressed. Expressed at high levels in heart, placenta and skeletal muscle, at lower levels in lung, kidney and pancreas and at very low levels in brain and liver.
<b>Sequence similarities</b>	Belongs to the CREC family. Contains 6 EF-hand domains.
<b>Cellular localization</b>	Endoplasmic reticulum lumen. Secreted. Melanosome. Sarcoplasmic reticulum lumen. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

## Images



Western blot - Anti-Calumenin antibody [EPR9075]  
(ab137019)

**All lanes :** Anti-Calumenin antibody [EPR9075] (ab137019) at 1/1000 dilution

**Lane 1 :** Human placenta lysate

**Lane 2 :** Jurkat lysate

**Lane 3 :** 293T lysate

**Lane 4 :** K562 lysate

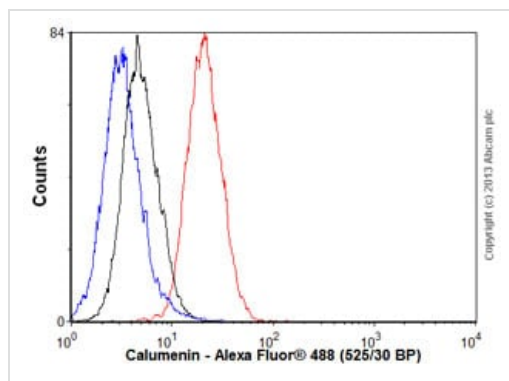
**Lane 5 :** HACAT lysate

Lysates/proteins at 10 µg per lane.

## Secondary

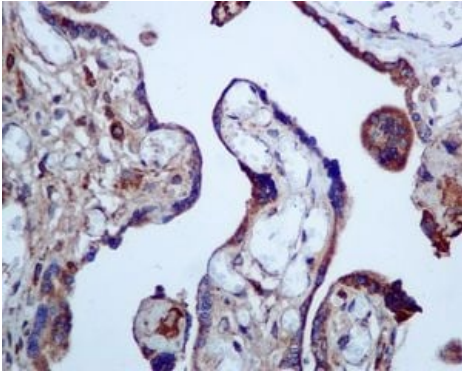
**All lanes :** HRP labelled goat anti-rabbit at 1/2000 dilution

**Predicted band size:** 37 kDa



Flow Cytometry (Intracellular) - Anti-Calumenin  
antibody [EPR9075] (ab137019)

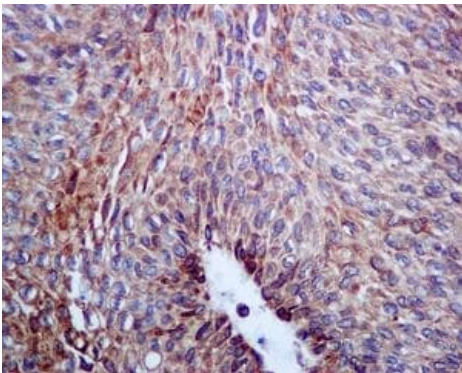
Overlay histogram showing JEG3 cells stained with ab137019 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab137019, 1/50 dilution) for 30 min at 22°C. The secondary antibody used was Alexa Fluor® 488 goat anti-rabbit IgG (H&L) (**ab150077**) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (1µg/1x10<sup>6</sup> cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Calumenin antibody [EPR9075] (ab137019)

Immunohistochemical analysis of paraffin-embedded Human placenta tissue labelling Calumenin with ab137019 at 1/100 dilution.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

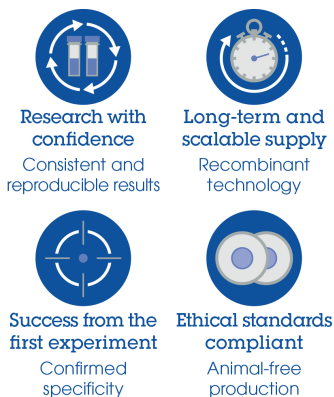


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Calumenin antibody [EPR9075] (ab137019)

Immunohistochemical analysis of paraffin-embedded Human urinary bladder transitional carcinoma tissue labelling Calumenin with ab137019 at 1/100 dilution.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

### Why choose a recombinant antibody?



Anti-Calumenin antibody [EPR9075] (ab137019)

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

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