

## Product datasheet

# Anti-ATG3 antibody [EPR4802] ab108282

リコンビナント RabMAb<sup>®</sup>

1 References [画像数 2](#)

### 製品の概要

<b>製品名</b>	Anti-ATG3 antibody [EPR4802]
<b>製品の詳細</b>	Rabbit monoclonal [EPR4802] to ATG3
<b>由来種</b>	Rabbit
<b>アプリケーション</b>	<b>適用あり:</b> WB, IP, Flow Cyt <b>適用なし:</b> ICC/IF or IHC-P
<b>種交差性</b>	<b>交差種:</b> Mouse, Rat, Human
<b>免疫原</b>	Synthetic peptide within Human ATG3 aa 250-350 (C terminal). The exact sequence is proprietary.
<b>ポジティブ・コントロール</b>	K562, HeLa or Jurkat cell lysates (WB) Permeabilized Jurkat cells (FC)
<b>特記事項</b>	

Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb<sup>®</sup> patents](#)

This product is a recombinant rabbit monoclonal antibody.

### 製品の特性

<b>製品の状態</b>	Liquid
<b>保存方法</b>	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
<b>バッファー</b>	pH: 7.20 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol, 9.85% Tris glycine, 50% Tissue culture supernatant
<b>精製度</b>	Tissue culture supernatant
<b>ポリ/モノ</b>	モノクローナル
<b>クローン名</b>	EPR4802
<b>アイソタイプ</b>	IgG

### アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab108282** 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		1/1000 - 1/10000. Detects a band of approximately 40 kDa (predicted molecular weight: 36 kDa).
IP		1/10 - 1/100.
Flow Cyt		1/10 - 1/100. <a href="#">ab172730</a> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

**追加情報** Is unsuitable for ICC/IF or IHC-P.

### ターゲット情報

**機能** E2-like enzyme involved in autophagy and mitochondrial homeostasis. Catalyzes the conjugation of ATG8-like proteins (GABARAP, GABARAPL1, GABARAPL2 or MAP1LC3A) to phosphatidylethanolamine (PE). PE-conjugation to ATG8-like proteins is essential for autophagy. Preferred substrate is MAP1LC3A. Also acts as an autocatalytic E2-like enzyme, catalyzing the conjugation of ATG12 to itself, ATG12 conjugation to ATG3 playing a role in mitochondrial homeostasis but not in autophagy. ATG7 (E1-like enzyme) facilitates this reaction by forming an E1-E2 complex with ATG3.

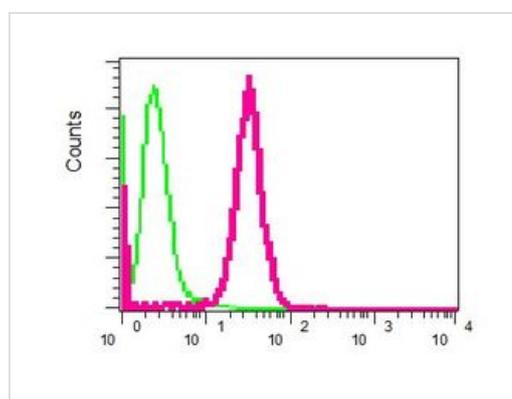
**組織特異性** Widely expressed, with a highest expression in heart, skeletal muscle, kidney, liver and placenta.

**配列類似性** Belongs to the ATG3 family.

**翻訳後修飾** Conjugated to ATG12 at Lys-243. ATG12-conjugation plays a role in regulation of mitochondrial homeostasis and cell death, while it is not involved in PE-conjugation to ATG8-like proteins and autophagy.

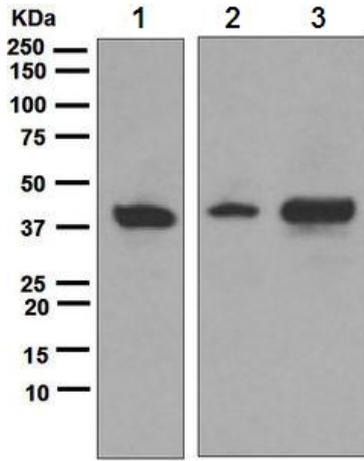
**細胞内局在** Cytoplasm.

### 画像



Flow cytometric analysis of permeabilized Jurkat cells using ab108282 at 1/10 (red) or a rabbit IgG (negative) (green).

Flow Cytometry - Anti-ATG3 antibody [EPR4802]  
(ab108282)



Western blot - Anti-ATG3 antibody [EPR4802]  
(ab108282)

**All lanes :** Anti-ATG3 antibody [EPR4802] (ab108282) at 1/1000 dilution

**Lane 1 :** K562 cell lysate

**Lane 2 :** HeLa cell lysate

**Lane 3 :** Jurkat cell lysate

Lysates/proteins at 10 µg per lane.

#### Secondary

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

**Predicted band size:** 36 kDa

**Observed band size:** 40 kDa

[why is the actual band size different from the predicted?](#)

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

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