

## Product datasheet

# Anti-Mark3 antibody ab77199

画像数 6

### 製品の概要

製品名	Anti-Mark3 antibody
製品の詳細	Mouse monoclonal to Mark3
由来種	Mouse
アプリケーション	適用あり: WB, ICC/IF, Flow Cyt, ELISA
種交差性	交差種: Human 交差が予測される動物種: Mouse, Rat, Dog, Chimpanzee
免疫原	Recombinant fragment: HHKVQRSVFS SQKQRRYSDH AGPAIPSVVA YPKRSQTSTA DSDLKEDGIS SRKSSGSAVG GKGAPASPM LGNASNPNKA DIPERKKSST VPSSNTASG, corresponding to amino acids 402-500 of Human Mark3 (NP_002367) with a 26 kDa tag. <a href="#">Run BLAST with ExPASy</a> <a href="#">Run BLAST with NCBI</a>
ポジティブ・コントロール	Mark3 transfected 293T cell lysate. Recombinant tagged human Mark3 fragment.

### 製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
バッファー	Preservative: None Constituents: 1X PBS, pH 7.2
精製度	Protein A purified
ポリ/モノ	モノクローナル
アイソタイプ	IgG2b
軽鎖の種類	kappa

### アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab77199** in the following tested applications.

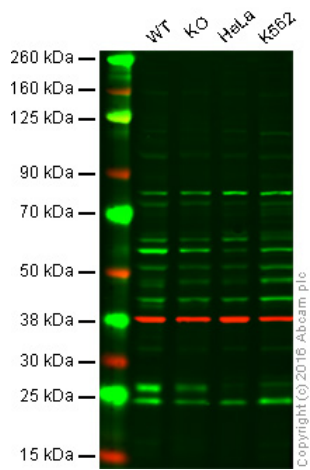
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Abreviews	特記事項
WB		Use a concentration of 1 - 5 µg/ml. Predicted molecular weight: 87 kDa.
ICC/IF		Use a concentration of 5 µg/ml.
Flow Cyt		Use 0.01-0.1µg for 10 <sup>6</sup> cells. <a href="#">ab170192</a> - Mouse monoclonal IgG2b, is suitable for use as an isotype control with this antibody.
ELISA		Use at an assay dependent concentration. Detection limit for recombinant tagged Mark3 is approximately 3ng/ml when used as a capture antibody.

### ターゲット情報

機能	Involved in the specific phosphorylation of microtubule-associated proteins for tau, MAP2 and MAP4. Phosphorylates CDC25C on 'Ser-216'.
組織特異性	Ubiquitous.
配列類似性	<p>Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. MARK subfamily.</p> <p>Contains 1 KA1 (kinase-associated) domain.</p> <p>Contains 1 protein kinase domain.</p> <p>Contains 1 UBA domain.</p>

### 画像



Western blot - Anti-Mark3 antibody (ab77199)

**Lane 1:** Wild-type HAP1 cell lysate (20 µg)

**Lane 2:** MARK3 knockout HAP1 cell lysate (20 µg)

**Lane 3:** HeLa cell lysate (20 µg)

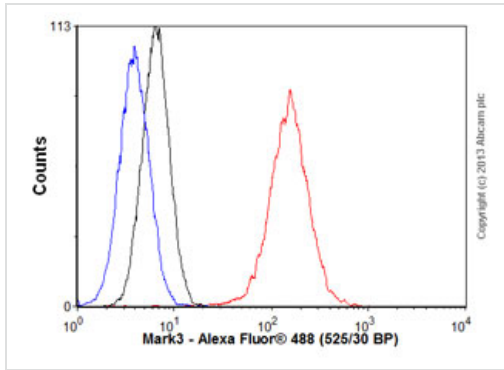
**Lane 4:** K562 cell lysate (20 µg)

**Lanes 1 - 4:** Merged (red and green) signal.

Green - ab77199 observed at 85 kDa. Red - loading control, [ab181602](#), observed at 37 kDa.

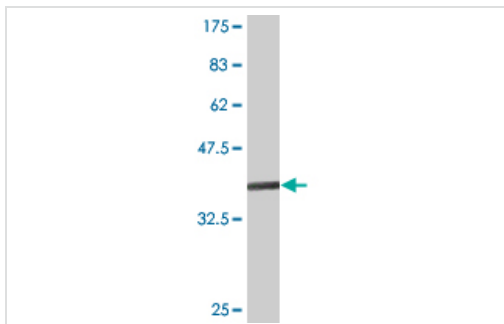
ab77199 was shown not to specifically react with MARK3, when MARK3 knockout samples were used. Wild-type and MARK3 knockout samples were subjected to SDS-PAGE.

ab77199 and [ab181602](#) (loading control to GAPDH) were diluted at 1 µg/mL and 1/10 000 respectively and incubated overnight at 4°C. Blots were developed with goat anti-rabbit IgG (H + L) and goat anti-mouse IgG (H + L) secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.



Flow Cytometry - Anti-Mark3 antibody (ab77199)

Overlay histogram showing HeLa cells stained with ab77199 (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 (ab77199, 0.01µg/1x10<sup>6</sup> cells) for 30 min at 22°C. The secondary antibody used was Alexa Fluor® 488 goat anti-mouse IgG (H&L) (ab150113) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG2b [PLPV219] (ab91366, 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. This antibody gave a positive signal in HeLa cells fixed with 4% paraformaldehyde (10 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.



Western blot - Mark3 antibody (ab77199)

Anti-Mark3 antibody (ab77199) at 5 µg/ml + Recombinant tagged human Mark3 fragment at 0.2 µg

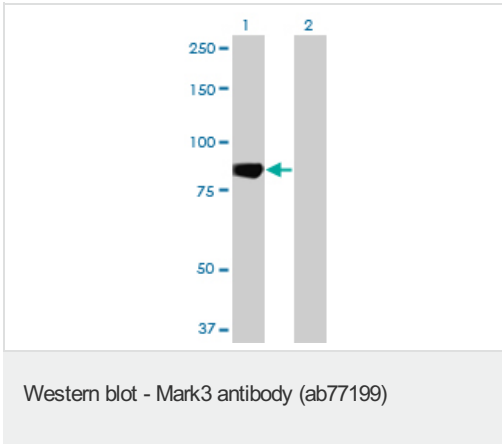
**Secondary**

Goat Anti-Mouse IgG (H&L)-HRP Conjugate at 1/5000 dilution

**Predicted band size:** 87 kDa

**Observed band size:** 37 kDa

Western blot against the tagged recombinant protein immunogen, which has a predicted molecular weight of 37 kDa.



**All lanes** : Anti-Mark3 antibody (ab77199) at 5 µg/ml

**Lane 1** : Mark3 transfected 293T cell lysate

**Lane 2** : Non transfected 293T cell lysate

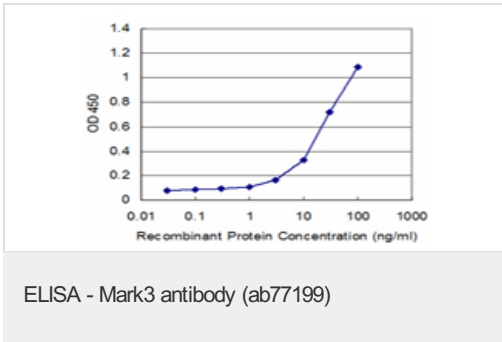
Lysates/proteins at 25 µg per lane.

#### Secondary

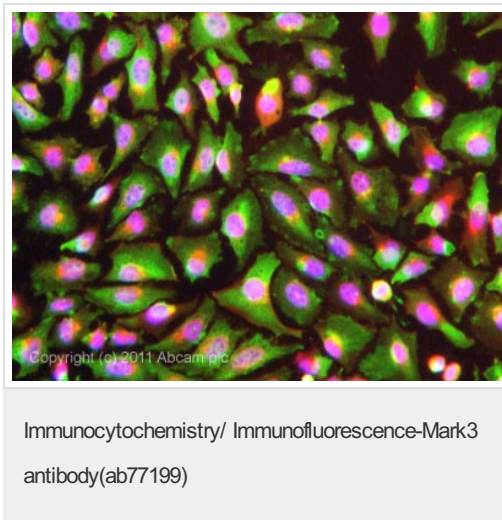
**All lanes** : Goat Anti-Mouse IgG (H&L)-HRP Conjugate at 1/2500 dilution

**Predicted band size:** 87 kDa

**Observed band size:** 87 kDa



Detection limit for ab77199 is approximately 3ng/ml as a capture antibody.



ICC/IF image of ab77199 stained HeLa cells.

The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab77199, 5µg/ml) overnight at +4°C. The secondary antibody (green) was [ab96879](#), DyLight® 488 goat anti-mouse IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

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

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