

## ABfinity™ EpCAM Recombinant Rabbit Oligoclonal Antibody

Store at 2°C to 8°C (short-term), or -20°C (long-term)

Catalog Number: 710524

Pub. No. MAN0009916 Rev. A.00

<b>Clonality:</b> Oligoclonal	<b>Quantity:</b> 100 µg	<b>Volume:</b> 200 µL	<b>Concentration:</b> 0.5 mg/mL
<b>Host/Class:</b> Rabbit	<b>Reactivity:</b> Human	<b>Predicted Reactivity:</b> Human EpCAM	

### Product description

The epithelial cell adhesion molecule (EpCAM) is a transmembrane glycoprotein expressed in the epithelium. It functions as a homotypic calcium-independent cell adhesion molecule, and plays a role in cell cycle progression, and proliferation and metabolism of epithelial cells and fibroblasts. Activation of EpCAM is capable of rapidly inducing c-myc and the cell cycle regulating genes cyclin A and E.

### Product specifications

<b>Immunogen:</b>	A peptide corresponding to amino acids 150–163 of human EpCAM.
<b>Alternate Names:</b>	EpCAM,GA733-2, M1S2, M4S1, MIC18, TACSTD1, TROP1, CD326
<b>Apparent MW:</b>	~35 kDa
<b>Gene ID:</b>	4072
<b>Protein Accession No.:</b>	P16422
<b>Sequence Identity:</b>	Human
<b>Sequence Homology:</b>	Monkey, Gorilla, Rabbit, Sheep, Bovine
<b>Clone/PAD:</b>	22 HCLC
<b>Isotype:</b>	IgG
<b>Lot:</b>	See product label

### Product applications

Application	Species	Test Material	Concentration
Western blotting	Human	HeLa, Hek 293, MDAMB231, and Cos 7 cells	2 µg/mL
Indirect ELISA	Human	Peptide	1.5 x 10 <sup>-4</sup> to 3 µg/mL
Immunocytochemistry	Human	HeLa cells	1 µg/mL

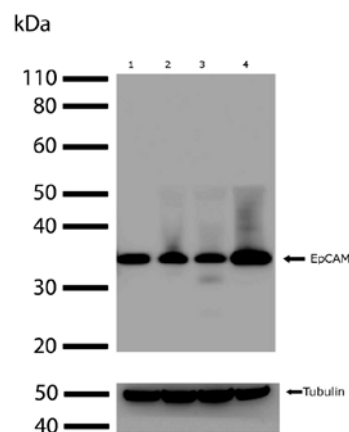
Because conditions may vary, it is recommended that each investigator determine the optimal amount of antibody to be used for each application.

### Storage and handling

Store the antibody at 2°C to 8°C for up to 1 month, or -20°C for long-term storage. Avoid repeated freezing and thawing.

**For Research Use Only. Not for use in diagnostic procedures**

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**Figure 1** Western Blot analysis of ABfinity™ EpCAM Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710524).

Western blot analysis was performed on whole cell lysates (30 µg each) of HeLa (lane 1), MDAMB231 (lane 2), Hek 293 (lane 3), and Cos 7 cells (lane 4). Endogenous levels of EpCAM was detected at ~35 kDa using ABfinity™ EpCAM Recombinant Rabbit Oligoclonal Antibody at a concentration of 2 µg/mL. A rabbit anti-tubulin antibody was blotted as a loading control. The blots were developed using chemiluminescence (ECL) method with a goat anti rabbit HRP secondary antibody (Cat no. G21234).

### Stability

When stored as instructed, expires one year from date of receipt unless otherwise indicated on product label.

### Storage buffer

Phosphate buffered saline (PBS) with 0.09% sodium azide.



**CAUTION!** Sodium azide is extremely toxic and may react with lead and copper plumbing to form highly explosive metal azides. Properly dispose of solutions containing sodium azide. Read the Safety Data Sheet (SDS) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves. SDSs are available at [www.lifetechologies.com/support](http://www.lifetechologies.com/support).

## Product documentation

To obtain a Certificate of Analysis or Safety Data Sheets (SDSs), visit [www.lifetechnologies.com/support](http://www.lifetechnologies.com/support).

## Related products

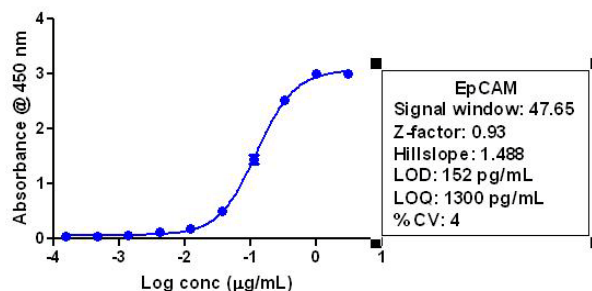
Product Name	Quantity	Cat. No.
WesternBreeze® Chromogenic Kit Anti-Rabbit	1 kit	WB7105
WesternBreeze® Chemiluminescent Kit Anti-Rabbit	1 mg	WB7106
Goat anti-mouse (H+L), HRP conj.	1 mg	G21040
Goat anti-rabbit (H+L), HRP conj.	1 mg	G21234
Goat anti-mouse (H+L), AP conj.	1 mg	G21060
Goat anti-rabbit (H+L), AP conj.	1 mg	G21079
Streptavidin Agarose	5 mL	SA10004

## Important Licensing Information

This product may be covered by one or more Limited Use Label Licenses. By use of this product, you accept the terms and conditions of all applicable Limited Use Label Licenses.

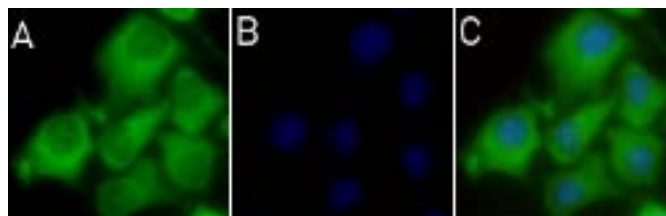
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**Figure 2** Indirect ELISA analysis of ABfinity™ EpCAM Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710524).

Indirect ELISA was performed with various dilutions of ABfinity™ EpCAM Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710524) to detect EpCAM peptide coated onto the plate using a goat anti-rabbit HRP secondary antibody. A non-linear regression analysis was performed (4 PL) and LOD and LOQ for the antibody was determined.



**Figure 3** Immunocytochemistry analysis of ABfinity™ EpCAM Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710524).

Immunocytochemistry analysis of HeLa cells stained with ABfinity™ EpCAM Recombinant Rabbit Oligoclonal Antibody using **a**: Alexa Fluor® 488 goat anti-rabbit as a secondary antibody (green). **b**: DAPI stained HeLa nuclei (blue). **c**: Composite image of cells showing cytoplasmic localization of EpCAM.

## Explanation of symbols

Symbol	Description	Symbol	Description	Symbol	Description
	Manufacturer		Catalog number		Batch code
	Use by		Temperature limitation		
	Consult instructions for use		Caution, consult accompanying documents		

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