

# Anti-EpCAM antibody [EPR677(2)] - BSA and Azide free ab219364

リコンビナント **RabMAb**

画像数 12

### 製品の概要

製品名	Anti-EpCAM antibody [EPR677(2)] - BSA and Azide free
製品の詳細	Rabbit monoclonal [EPR677(2)] to EpCAM - BSA and Azide free
由来種	Rabbit
アプリケーション	<b>適用あり:</b> WB, IHC-P <b>適用なし:</b> Flow Cyt, ICC/IF or IP
種交差性	<b>交差種:</b> Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: HCT116, A431 and HT29 cell lysates. IHC-P: Human colon adenocarcinoma, colon, endometrial adenocarcinoma and stomach adenocarcinoma tissues.
特記事項	<p>ab219364 is the carrier-free version of <a href="#">ab124825</a>.</p> <p>Produced using a non-baculovirus eukaryotic cell expression system.</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>

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](#).

## 製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C. Do Not Freeze.
バッファー	pH: 7.2 Constituent: PBS
キャリア・フリー	はい
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR677(2)
アイソタイプ	IgG

## アプリケーション

**The Abpromise guarantee**      **Abpromise保証は、** 次のテスト済みアプリケーションにおけるab219364の使用に適用されます  
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		Use at an assay dependent concentration. Detects a band of approximately 39 kDa (predicted molecular weight: 35 kDa). Western blots of mouse and rat samples are negative.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. Heat up to 98 degrees C, below boiling, and then let cool for 10-20 min.

**追加情報**      Is unsuitable for Flow Cyt, ICC/IF or IP.

## ターゲット情報

機能	May act as a physical homophilic interaction molecule between intestinal epithelial cells (IECs) and intraepithelial lymphocytes (IELs) at the mucosal epithelium for providing immunological barrier as a first line of defense against mucosal infection. Plays a role in embryonic stem cells proliferation and differentiation. Up-regulates the expression of FABP5, MYC and cyclins A and E.
組織特異性	Highly and selectively expressed by undifferentiated rather than differentiated embryonic stem cells (ESC). Levels rapidly diminish as soon as ESC's differentiate (at protein levels). Expressed in almost all epithelial cell membranes but not on mesodermal or neural cell membranes. Found on the surface of adenocarcinoma.
関連疾患	Defects in EPCAM are the cause of diarrhea type 5 (DIAR5) [MIM:613217]. It is an intractable diarrhea of infancy characterized by villous atrophy and absence of inflammation, with intestinal

epithelial cell dysplasia manifesting as focal epithelial tufts in the duodenum and jejunum. Defects in EPCAM are a cause of hereditary non-polyposis colorectal cancer type 8 (HNPCC8) [MIM:613244]. HNPCC is a disease associated with marked increase in cancer susceptibility. It is characterized by a familial predisposition to early-onset colorectal carcinoma (CRC) and extra-colonic tumors of the gastrointestinal, urological and female reproductive tracts. HNPCC is reported to be the most common form of inherited colorectal cancer in the Western world. Clinically, HNPCC is often divided into two subgroups. Type I is characterized by hereditary predisposition to colorectal cancer, a young age of onset, and carcinoma observed in the proximal colon. Type II is characterized by increased risk for cancers in certain tissues such as the uterus, ovary, breast, stomach, small intestine, skin, and larynx in addition to the colon. Diagnosis of classical HNPCC is based on the Amsterdam criteria: 3 or more relatives affected by colorectal cancer, one a first degree relative of the other two; 2 or more generation affected; 1 or more colorectal cancers presenting before 50 years of age; exclusion of hereditary polyposis syndromes. The term 'suspected HNPCC' or 'incomplete HNPCC' can be used to describe families who do not or only partially fulfill the Amsterdam criteria, but in whom a genetic basis for colon cancer is strongly suspected. Note=HNPCC8 results from heterozygous deletion of 3-prime exons of EPCAM and intergenic regions directly upstream of MSH2, resulting in transcriptional read-through and epigenetic silencing of MSH2 in tissues expressing EPCAM.

#### 配列類似性

Belongs to the EPCAM family.  
Contains 1 thyroglobulin type-1 domain.

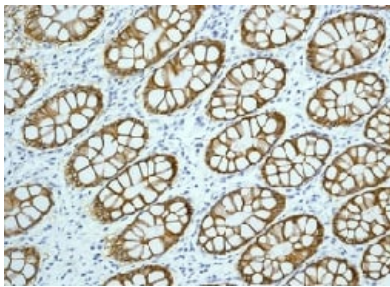
#### 翻訳後修飾

Hyperglycosylated in carcinoma tissue as compared with autologous normal epithelia. Glycosylation at Asn-198 is crucial for protein stability.

#### 細胞内局在

Lateral cell membrane. Cell junction > tight junction. Co-localizes with CLDN7 at the lateral cell membrane and tight junction.

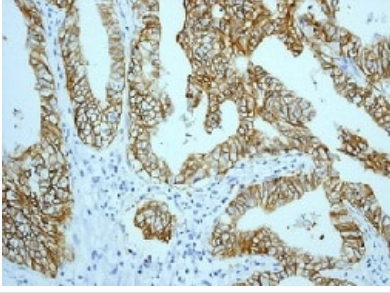
#### 画像



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-EpCAM antibody [EPR677(2)] - BSA and Azide free (ab219364)

**ab124825**, at 1/100 dilution, staining EpCAM in paraffin-embedded Human colon tissue by Immunohistochemistry. Heat mediated antigen retrieval was performed before commencing with IHC staining protocol.

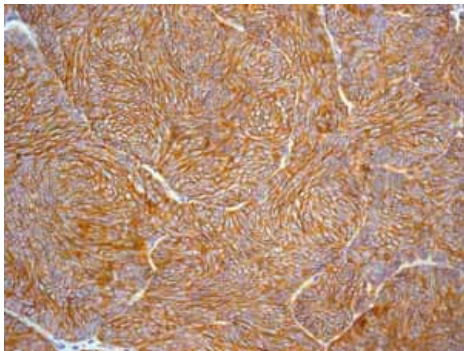
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab124825**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-EpCAM antibody [EPR677(2)] - BSA and Azide free (ab219364)

**ab124825**, at 1/100 dilution, staining EpCAM in paraffin-embedded Human endometrial adenocarcinoma tissue by Immunohistochemistry. Heat mediated antigen retrieval was performed before commencing with IHC staining protocol.

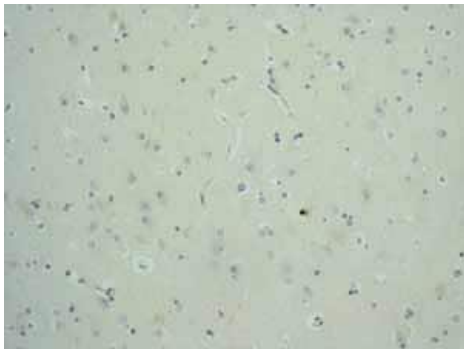
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab124825**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-EpCAM antibody [EPR677(2)] - BSA and Azide free (ab219364)

**ab124825** showing positive staining in Urinary bladder transitional carcinoma tissue. Heat mediated antigen retrieval was performed before commencing with IHC staining protocol.

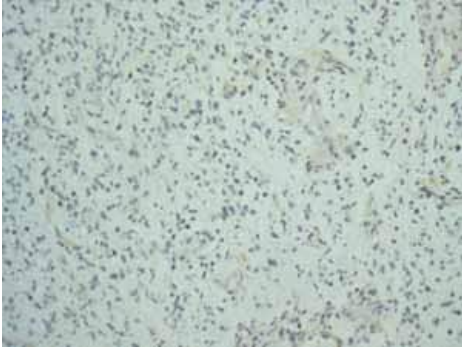
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab124825**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-EpCAM antibody [EPR677(2)] - BSA and Azide free (ab219364)

**ab124825** showing negative staining in Normal brain tissue. Heat mediated antigen retrieval was performed before commencing with IHC staining protocol.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab124825**).

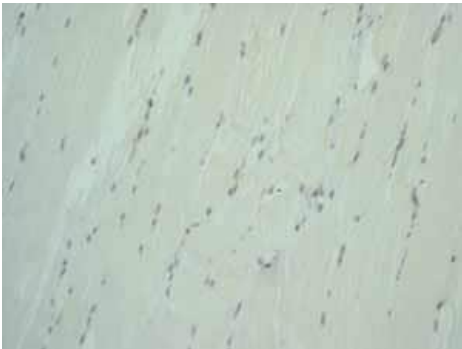


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-EpCAM antibody [EPR677(2)] - BSA and Azide free (ab219364)

**ab124825** showing negative staining in Glioma tissue.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab124825**).

Heat mediated antigen retrieval was performed before commencing with IHC staining protocol.

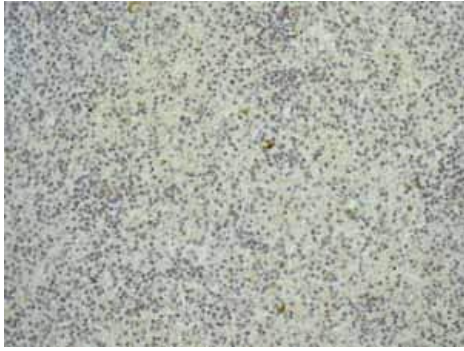


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-EpCAM antibody [EPR677(2)] - BSA and Azide free (ab219364)

**ab124825** showing negative staining in Skeletal muscle tissue.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab124825**).

Heat mediated antigen retrieval was performed before commencing with IHC staining protocol.

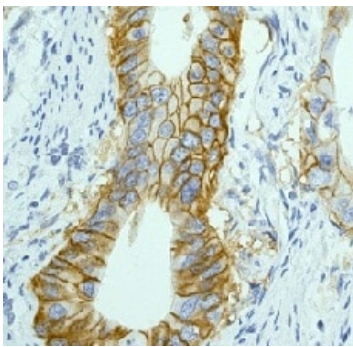


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-EpCAM antibody [EPR677(2)] - BSA and Azide free (ab219364)

**ab124825** showing negative staining in Normal tonsil tissue.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab124825**).

Heat mediated antigen retrieval was performed before commencing with IHC staining protocol.

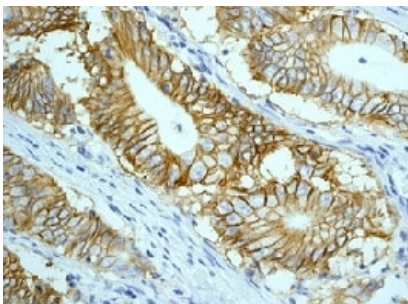


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-EpCAM antibody [EPR677(2)] - BSA and Azide free (ab219364)

**ab124825**, at 1/100 dilution, staining EpCAM in paraffin-embedded Human stomach adenocarcinoma tissue by Immunohistochemistry.

Heat mediated antigen retrieval was performed before commencing with IHC staining protocol.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab124825**).



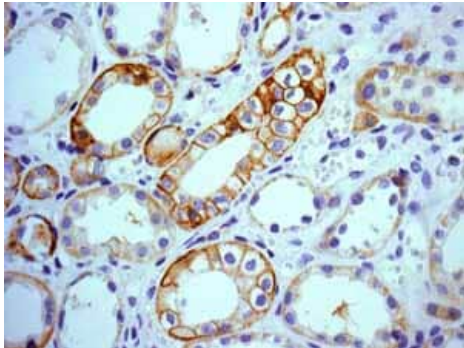
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-EpCAM antibody [EPR677(2)] - BSA and Azide free (ab219364)

This IHC data was generated using the same anti-EpCAM antibody clone, EPR677(2), in a different buffer formulation (cat# **ab124825**).

Heat mediated antigen retrieval was performed before commencing with IHC staining protocol.

**ab124825**, at 1/100 dilution, staining EpCAM in paraffin-embedded Human colon adenocarcinoma tissue by Immunohistochemistry.





Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-EpCAM antibody [EPR677(2)] - BSA and Azide free (ab219364)

This IHC data was generated using the same anti-EpCAM antibody clone, EPR677(2), in a different buffer formulation (cat# **ab124825**). Heat mediated antigen retrieval was performed before commencing with IHC staining protocol.

**ab124825** showing positive staining in Normal kidney tissue.

Normal tissue samples						Malignant tissue samples					
Human cardiac muscle	x	Human placenta	x	Clear cell carcinoma of human kidney	x	Human glioma	x	Human hepatocellular carcinoma	x	Human lung carcinoma	x
Human cerebrum	x	Human skeletal muscle	x	Human bladder cancer	✓	Human ovarian carcinoma	✓	Human pancreatic carcinoma	x	Human thyroid carcinoma	x
Human colon	✓	Human skin	✓	Human breast carcinoma	x	Human cervical carcinoma	x	Human prostate carcinoma	x	Human thyroid carcinoma	x
Human endometrium	✓	Human spleen	x	Human colon carcinoma	✓	Human endometrial carcinoma	✓	Human thyroid carcinoma	x	Human thyroid carcinoma	x
Human kidney	✓	Human stomach	x	Human gastric carcinoma	✓	Human thyroid carcinoma	✓	Human thyroid carcinoma	x	Human thyroid carcinoma	x
Human liver	x	Human testis	x	Human thyroid carcinoma	✓	Human thyroid carcinoma	✓	Human thyroid carcinoma	x	Human thyroid carcinoma	x
Human lung	x	Human thyroid	x	Human thyroid carcinoma	✓	Human thyroid carcinoma	✓	Human thyroid carcinoma	x	Human thyroid carcinoma	x
Human mammary gland	✓	Human tonsil	x	Human thyroid carcinoma	✓	Human thyroid carcinoma	✓	Human thyroid carcinoma	x	Human thyroid carcinoma	x
Human pancreas	✓			Human thyroid carcinoma	✓	Human thyroid carcinoma	✓	Human thyroid carcinoma	x	Human thyroid carcinoma	x

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-EpCAM antibody [EPR677(2)] - BSA and Azide free (ab219364)

Tissue Microarrays stained for " Anti-EpCAM antibody [EPR677(2)]" using " **ab124825**" in immunohistochemical analysis. This table provides a detailed overview of positive (tick mark) and negative (cross mark) staining per sample type tested. The sections were pre-treated using Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0) for 20 minutes. The sections were incubated with **ab124825** for 30 mins at room temperature followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). The immunostaining was performed on a Leica Biosystems BOND® RX instrument.

### 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

Anti-EpCAM antibody [EPR677(2)] - BSA and Azide free (ab219364)

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

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