Product datasheet

Anti-E Cadherin antibody [EPR699] ab133597

28 References  画像数 4

製品の概要

製品名: Anti-E Cadherin antibody [EPR699]
製品の詳細: Rabbit monoclonal [EPR699] to E Cadherin
由来種: Rabbit
特異性: E-cadherin contains a number of cleavage sites which may yield a complex fragmentation pattern in WB. Multiple bands between ~80-120 kDa may be observed.

アプリケーション

適用あり: WB
適用なし: Flow Cyt, ICC/IF, IHC-P or IP

種交差性

交差種: Human

免疫原: Synthetic peptide corresponding to Human E Cadherin aa 150-250.
Database link: P12830

ポジティブ・コントロール

WB: A431, MCF7, Caco-2, HeLa whole cell lysate (ab150035).

特記事項

This product is a recombinant monoclonal antibody, which offers several advantages including:
- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production
For more information see here.

Our RabMab® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMab® patents.

We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.

製品の特性

製品の状態: Liquid
保存方法
Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle. Stable for 12 months at -20°C.

バッファー
pH: 7.20
Preservative: 0.01% Sodium azide
Constituents: 59% PBS, 40% Glycerol, 0.5% BSA

精製度
Protein A purified

ポリモノ
モノクローナル

クローン名
EPR699

アイソタイプ
IgG

アプリケーション
Our Abpromise guarantee covers the use of ab133597 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>アプリケーション</th>
<th>Abreviews</th>
<th>特記事項</th>
</tr>
</thead>
<tbody>
<tr>
<td>WB</td>
<td>1/1000 - 1/10000</td>
<td>Detects a band of approximately 80-120 kDa (predicted molecular weight: 97 kDa).</td>
</tr>
</tbody>
</table>

追加情報
Is unsuitable for Flow Cy,F,ICC/IF,#H-P or IP.

ターゲット情報
Cadherins are calcium-dependent cell adhesion proteins. They preferentially interact with themselves in a homophilic manner in connecting cells; cadherins may thus contribute to the sorting of heterogeneous cell types. CDH1 is involved in mechanisms regulating cell-cell adhesions, mobility and proliferation of epithelial cells. Has a potent invasive suppressor role. It is a ligand for integrin alpha-E/beta-7.
E-Cad/CTF2 promotes non-amyloidogenic degradation of Abeta precursors. Has a strong inhibitory effect on APP C99 and C83 production.

組織特異性
Non-neural epithelial tissues.

関連疾患
Defects in CDH1 are the cause of hereditary diffuse gastric cancer (HDGC) [MIM:137215]. An autosomal dominant cancer predisposition syndrome with increased susceptibility to diffuse gastric cancer. Diffuse gastric cancer is a malignant disease characterized by poorly differentiated infiltrating lesions resulting in thickening of the stomach. Malignant tumors start in the stomach, can spread to the esophagus or the small intestine, and can extend through the stomach wall to nearby lymph nodes and organs. It also can metastasize to other parts of the body. Note=Heterozygous germline mutations CDH1 are responsible for familial cases of diffuse gastric cancer. Somatic mutations in the has also been found in patients with sporadic diffuse gastric cancer. Somatic mutations in the has also been found in patients with sporadic diffuse gastric cancer and lobular breast cancer.
Defects in CDH1 are a cause of susceptibility to endometrial cancer (ENDMC) [MIM:608089].
Defects in CDH1 are a cause of susceptibility to ovarian cancer (OC) [MIM:167000].
Ovarian cancer common malignancy originating from ovarian tissue. Although many histologic types of ovarian neoplasms have been described, epithelial ovarian carcinoma is the most common form. Ovarian cancers are often asymptomatic and the recognized signs and symptoms, even of late-stage disease, are vague. Consequently, most patients are diagnosed with advanced disease.

配列類似性
Contains 5 cadherin domains.
During apoptosis or with calcium influx, cleaved by a membrane-bound metalloproteinase (ADAM10), PS1/gamma-secretase and caspase-3 to produce fragments of about 38 kDa (E-CAD/CTF1), 33 kDa (E-CAD/CTF2) and 29 kDa (E-CAD/CTF3), respectively. Processing by the metalloproteinase, induced by calcium influx, causes disruption of cell-cell adhesion and the subsequent release of beta-catenin into the cytoplasm. The residual membrane-tethered cleavage product is rapidly degraded via an intracellular proteolytic pathway. Cleavage by caspase-3 releases the cytoplasmic tail resulting in disintegration of the actin microfilament system. The gamma-secretase-mediated cleavage promotes disassembly of adherens junctions.


**Western blot - Anti-E Cadherin antibody [EPR699]**

Antibody [EPR699] (ab133597) at 1/1000 dilution (Purified) + MCF7 (Human breast adenocarcinoma epithelial cell) whole cell lysates at 15 µg

**Secondary**

Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

**Predicted band size**: 97 kDa

**Observed band size**: 120 kDa

*why is the actual band size different from the predicted?*
**Western blot - Anti-E Cadherin antibody [EPR699] (ab133597)**

**Lane 1**: Anti-E Cadherin antibody [EP700Y] - Intercellular Junction Marker (ab40772) at 1/5000 dilution

**Lane 2**: Anti-E Cadherin antibody [EPR699] (ab133597) at 1/2000 dilution

**Lane 3**: Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602)

**All lanes**: PC-3 (Human prostate adenocarcinoma epithelial cell). Whole cell lysates

Lysates/proteins at 20 µg per lane.

**Secondary**

**All lanes**: Goat Anti-Rabbit IgG H&L (HRP) (ab97051)

**Predicted band size**: 97 kDa

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**Western blot - Anti-E Cadherin antibody [EPR699] (ab133597)**

**Lane 1**: Anti-E Cadherin antibody [EP700Y] - Intercellular Junction Marker (ab40772) at 1/5000 dilution

**Lane 2**: Anti-E Cadherin antibody [EPR699] (ab133597) at 1/2000 dilution

**Lane 3**: Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602)

**All lanes**: HT-29 (Human colorectal adenocarcinoma epithelial cell). Whole cell lysates

Lysates/proteins at 20 µg per lane.

**Secondary**

**All lanes**: Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

**Predicted band size**: 97 kDa

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**Exposure time**: 3 minutes for Ab40772 and Ab133597, 32 seconds for GAPDH

Blocking and diluting buffer: 5% NFDM/TBST

Multi-bands can refer to PMID: 11212238; PMID: 14695147 and PMID: 22659456

This image was produced using unpurified antibody.
**Observed band size**: 80 kDa why is the actual band size different from the predicted?

**Exposure time**: 1 second for Ab40772, 3 minutes for Ab133597, 32 seconds for GAPDH.

Blocking and diluting buffer: 5% NFDM/TBST

Multi-bands can refer to PMID: 11212238; PMID: 14695147 and PMID: 22659456

This image was produced using unpurified antibody.

**All lanes** : Anti-E Cadherin antibody [EPR699] (ab133597) at 1/1000 dilution

**Lane 1**: A431 (Human epidermoid carcinoma cell line) cell lysate
**Lane 2**: MCF7 (Human breast adenocarcinoma cell line) cell lysate
**Lane 3**: Caco-2 (Human colorectal adenocarcinoma cell line) cell lysate
**Lane 4**: HeLa (Human epithelial cell line from cervix adenocarcinoma) cell lysate

Lysates/proteins at 10 µg per lane.

**Secondary**

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

**Predicted band size**: 97 kDa

This image was produced using unpurified antibody.

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

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