

Product datasheet

Anti-LI Cadherin antibody [EPR3996] α b109190

Recombinant RabMAb

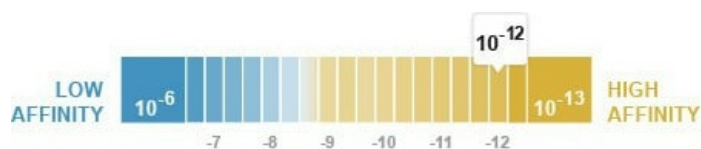
12 Images

Overview

Product name	Anti-LI Cadherin antibody [EPR3996]
Description	Rabbit monoclonal [EPR3996] to LI Cadherin
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P Unsuitable for: Flow Cyt, ICC/IF or IP
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Human small intestine, Human colon cancer, and HT-29 cell lysates. Human LoVo, small intestine and colon lysates. IHC-P: Human colon and Human colonic adenocarcinoma tissues
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Dissociation constant (K_D)	K _D = 2.90 x 10 ⁻¹² M



[Learn more about K_D](#)

Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 0.05% BSA, 40% Glycerol (glycerin, glycerine), 59% PBS
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR3996
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab109190 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

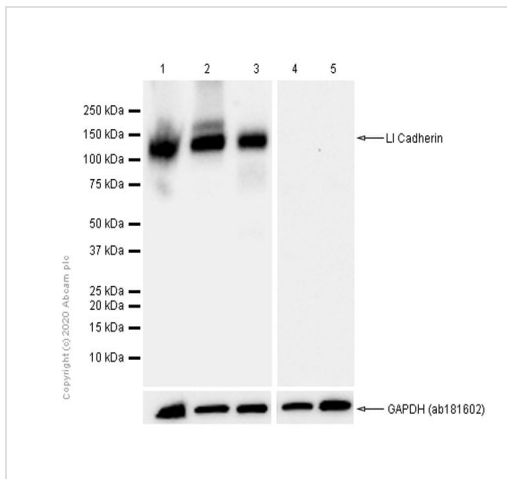
Application	Abreviews	Notes
WB		1/1000 - 1/10000. Detects a band of approximately 120 kDa (predicted molecular weight: 92 kDa).
IHC-P		1/250 - 1/500. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Application notes Is unsuitable for Flow Cyt, ICC/IF or IP.

Target

Function	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. LI-cadherin may have a role in the morphological organization of liver and intestine. Involved in intestinal peptide transport.
Tissue specificity	Expressed in the gastrointestinal tract and pancreatic duct. Not detected in kidney, lung, liver, brain, adrenal gland and skin.
Sequence similarities	Contains 7 cadherin domains.
Cellular localization	Cell membrane.

Images



Western blot - Anti-LI Cadherin antibody [EPR3996] (ab109190)

Lanes 1-3 : Anti-LI Cadherin antibody [EPR3996] (ab109190) at 1/1000 dilution (Purified)

Lanes 4-5 : Anti-LI Cadherin antibody [EPR3996] (ab109190) at 1/1000 dilution

Lane 1 : LoVo (Human colorectal adenocarcinoma epithelial cell) whole cell lysate

Lane 2 : Human small intestine lysate

Lane 3 : Human colon lysate

Lane 4 : Human spleen lysate

Lane 5 : Human kidney lysate

Lysates/proteins at 20 µg per lane.

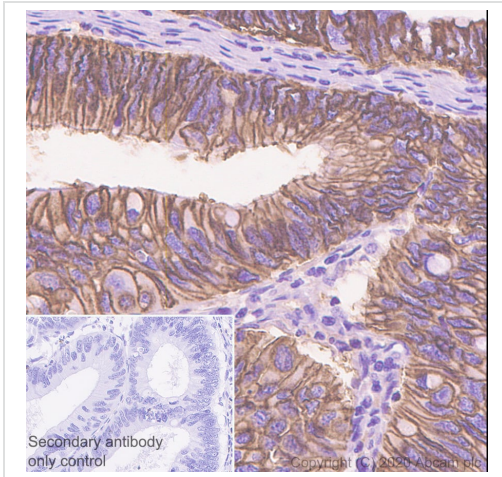
Secondary

All lanes : Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

Predicted band size: 92 kDa

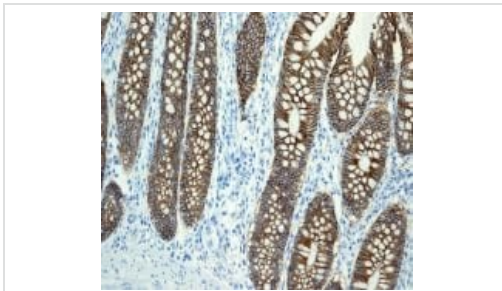
Observed band size: 120 kDa

The expression profile and molecular weight observed are consistent with what has been described in the literature (PMID: 18552820).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human colon cancer tissue sections labeling LI Cadherin with purified ab109190 at 1/300 dilution (0.48 $\mu\text{g}/\text{mL}$). Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0). Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.

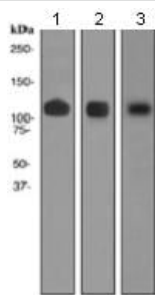
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LI Cadherin antibody [EPR3996] (ab109190)



Immunohistochemical staining of paraffin-embedded Human colon tissue using ab109190 at a dilution of 1/250.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LI Cadherin antibody [EPR3996] (ab109190)



Western blot - Anti-LI Cadherin antibody [EPR3996] (ab109190)

All lanes : Anti-LI Cadherin antibody [EPR3996] (ab109190) at 1/1000 dilution

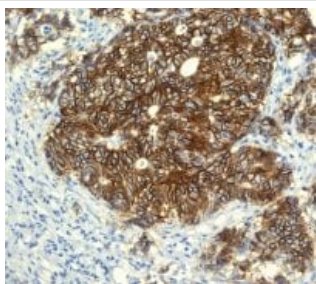
Lane 1 : Human small intestine cell lysate

Lane 2 : Human colon cancer cell lysate

Lane 3 : HT-29 cell lysate

Lysates/proteins at 10 µg per lane.

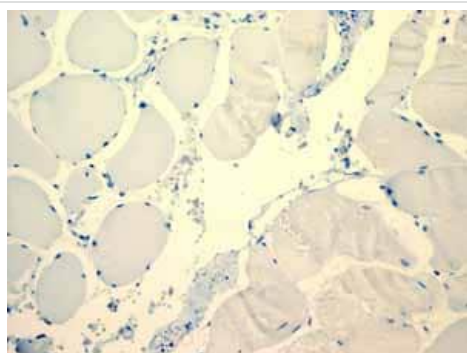
Predicted band size: 92 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LI Cadherin antibody [EPR3996] (ab109190)

Immunohistochemical staining of paraffin-embedded Human colonic adenocarcinoma tissue using ab109190 at a dilution of 1/250.

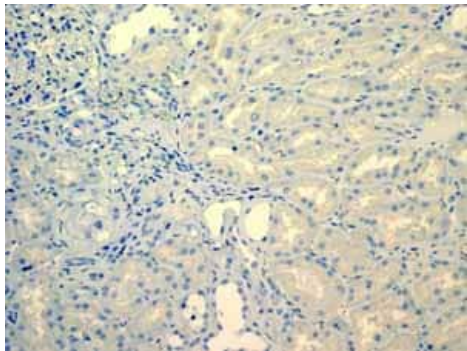
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LI Cadherin antibody [EPR3996] (ab109190)

ab109190 showing negative staining in Skeletal muscle tissue.

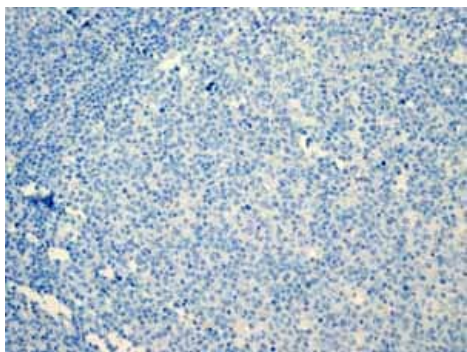
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-L1 Cadherin antibody [EPR3996] (ab109190)

ab109190 showing negative staining in Normal kidney tissue.

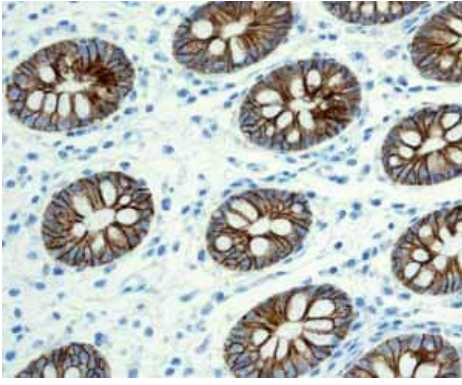
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-L1 Cadherin antibody [EPR3996] (ab109190)

ab109190 showing negative staining in Normal tonsil tissue.

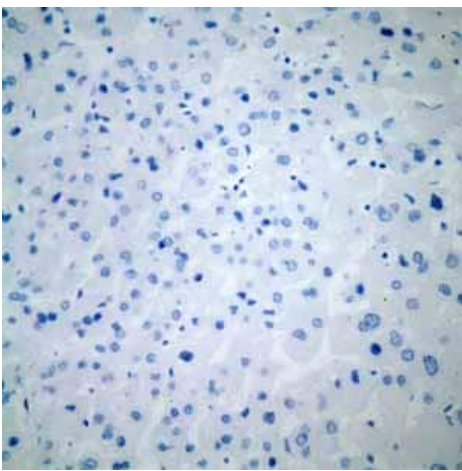
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LI Cadherin antibody [EPR3996] (ab109190)

ab109190 showing positive staining in Normal colon tissue.

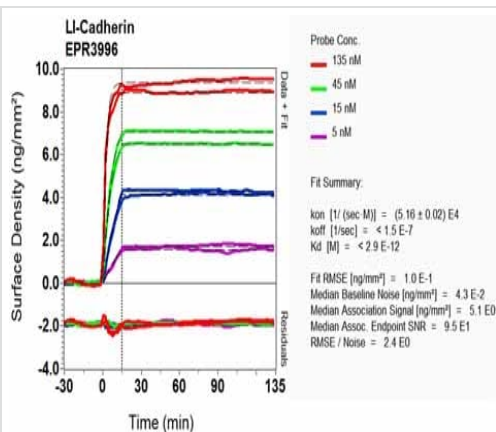
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LI Cadherin antibody [EPR3996] (ab109190)

ab109190 showing negative staining in Normal brain tissue.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



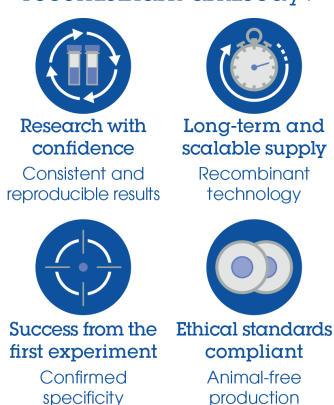
OIR-D Scanning - Anti-LI Cadherin antibody [EPR3996] (ab109190)

Equilibrium dissociation constant (K_D)

Learn more about K_D

[Click here to learn more about \$K_D\$](#)

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-L1 Cadherin antibody [EPR3996] (ab109190)

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