Claudin18.2 IHC 3B10 Kit
（Immunohistochemistry）

【Product name】

Claudin18.2 IHC 3B10 Kit（Immunohistochemistry）

【Specification】

2mL、7.5mL、30mL

【Intended use】

This reagent can be used for immunohistochemical staining on the basis of conventional staining (such as HE staining) to provide auxiliary information for laboratory tissue detection

【Priciple of the assay】

This reagent is used to detect the expression of cell Claudin18.2 on tumor cell membrane by immunohistochemical method. The antibody of Claudin18.2 specifically binds to the protein of Claudin18.2 expressed on the tissue, and the enzymo-labeled antibody is added to make the enzymo-labeled antibody specifically bind to the antibody of Claudin18.2. The horseradish peroxidase labeled on the enzymo-labeled antibody catalyzes the DAB color development solution subsequently added to oxidize benzidine into biphenylimide. In this way, the antigen epitope in the tissue section appears brownish yellow or yellowish brown color, and finally the sample is re-stained and sealed. The presence site and expression of Claudin18.2 on the tissue section were deduced by observing the color development under microscope

【Main component】

Mouse Anti-Claudin18.2 Monoclonal Antibody, Antibody Diluent

【Storage condition and expiration date】

Stable for 12 months from the date of manufacture if stored at 2°C to 8°C

【Reagents/equipment needed but not supplied】

LEICA BOND III

Equipment	LEICA BOND-III Fully Automated IHC and ISH Stainer
Reagent	BOND Epitope Retrieval Solution 2
	BOND Wash Solution 10X
	BOND Polymer Refine Detection DAB
	Deionized water
Consumable material	Microscope Slides
	Coverslips
	Permanent mounting medium and ancillary reagents required for mounting coverslips

DAKO Link 48

Equipment	DAKO Autostainer Link 48
	DAKO PT Link
Reagent	EnVision TM FLEX Target Retrieval Solution ,low pH
	EnVision FLEX Wash Buffer 20X
	EnVision TM FLEX+(Link) Kit
	DAB+Substrate-Chromogen Solutino
	EnVision TM FLEX Hematoxylin
	Deionized water
Consumable material	Microscope Slides
	Coverslips
	Permanent mounting medium and ancillary reagents required for mounting coverslips

【Applicable Platform】

Leica BOND III、DAKO Link 48

【Sample requirement】

Formalin-fixed, paraffin-embedded (FFPE) block of tissue, slicing requirements: 3~5μm, adhered to anti-detachment slides, stored at 2~8 °C in the dark.

【Detection Method】

Leica BOND III Platform

1. Dewaxing: Tissue sections are placed in a 62°C baking machine or oven for 30 minutes, and placed in xylene I and xylene II for 10 minutes each;

2. Hydration: put in absolute ethanol I and absolute ethanol II for 5 minutes in order, put in 95% ethanol, 85% ethanol and 75% ethanol for 2 minutes in order, wash with pure water for 3 minutes × 3 times;

3. Antigen retrieval: Immerse the slide rack with FFPE tissue sections inserted into the BOND Epitope Retrieval Solution 2 1x antigen retrieval solution, incubate at 100°C for 25 minutes, then naturally cool the tissue sections to room temperature in the antigen retrieval solution, wash 5 times with BOND Wash Solution 1x wash buffer, and incubate for 3 minutes at room temperature;

4. Inactivation of endogenous peroxidase: incubate with Peroxide Block for 5 minutes at room temperature and wash 3 times with BOND Wash Solution 1x wash buffer;

5. Primary antibody incubation: Claudin18.2 antibody reagent, incubate at room temperature for 35 minutes, and wash 3 times with BOND Wash Solution 1x wash buffer;

6. Secondary antibody incubation: Post Primary (BOND Polymer Refine Detection DAB) incubated at room temperature for 8 minutes, BOND Wash Solution 1x wash buffer washed for 2 minutes × 3 times; Polymer (BOND Polymer Refine Detection DAB) was incubated for 8 minutes, BOND Wash Solution 1x wash buffer was washed for 2 minutes× 2 times, and deionized water was washed 1 time;

7. DAB color development: Mixed DAB Refine (BOND Polymer Refine Detection DAB) reaction at room temperature for 10 minutes, deionized water wash 3 times;

8. Counterstaining: Stain with hematoxylin at room temperature for 5 minutes, wash once with deionized water , wash once with BOND Wash Solution 1X wash buffer, wash once with deionized water;

9. Mounting: After dehydration and transparency, use an appropriate amount of mounting medium to mount, observe under a microscope and interpret the results.

DAKO Link 48

1. Dewaxing: Tissue sections are placed in a 62°C baking machine or oven for 30 minutes, and placed in xylene I and xylene II for 10 minutes each;

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3. Antigen retrieval: Immerse the slide rack with FFPE tissue sections inserted into the antigen retrieval solution, incubate at 97°C for 25 minutes, then naturally cool the tissue sections to room temperature in the antigen retrieval solution, and incubate for 3 minutes at room temperature;

4. Inactivation of endogenous peroxidase: incubate with Peroxide Block for 5 minutes at room temperature and wash 1 time with Wash Solution 1x wash buffer;

5. Primary antibody incubation: Claudin18.2 antibody reagent, incubate at room temperature for 30minutes, and wash 1 time with Wash Solution 1x wash buffer;

6. Secondary antibody incubation: FLEX/HRP secondary antibody was incubated at room temperature for 20 minutes, washed one time with cleaning buffer, and the slices were incubated in the cleaning buffer at room temperature for 5 minutes;

7. DAB color development: FLEX DAB+ Sub-Chromo was incubated at room temperature for 5 minutes and washed once with cleaning buffer; DAB ENHANCER was incubated at room temperature for 5 minutes and washed one time with cleaning buffer.;

8. Counterstaining: Stain with hematoxylin at room temperature for 5 minutes, wash one time with deionized water , wash one time with Wash Solution 1X wash buffer, wash one time with deionized water;

9. Mounting: After dehydration and transparency, use an appropriate amount of mounting medium to mount, observe under a microscope and interpret the results.

【PRECAUTIONS】

1. This kit is for research use only and is not for use in diagnostic or therapeutic application

2. Please read the instructions carefully before use

【Contact us】

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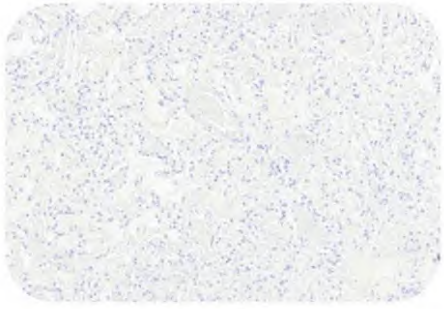
E-mail: order@acrobiosystems.com

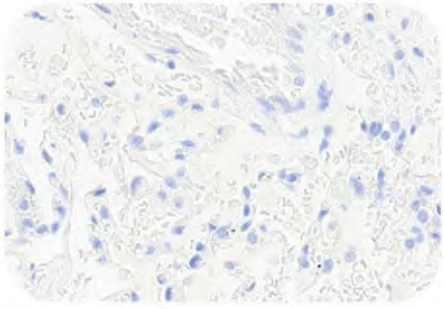
【Validation Data & Application Example】

Control Sample

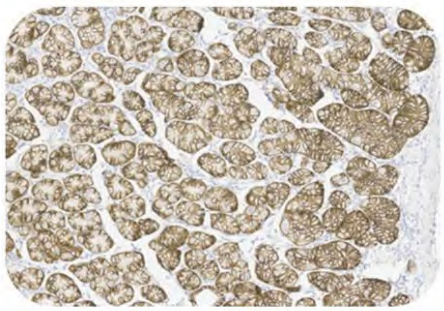
Use ACRO Claudin18.2 3B10 kit to stain normal gastric tissue and lung tissue, according to the cross-reactivity experiment, there is no cross-reactive staining result between Claudin-18.2 and Claudin-18.1.



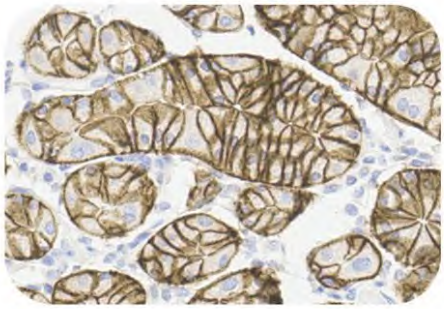
Human Lung Tissue-10X



Human Lung Tissue-40X



Human Gastric Tissue-10X

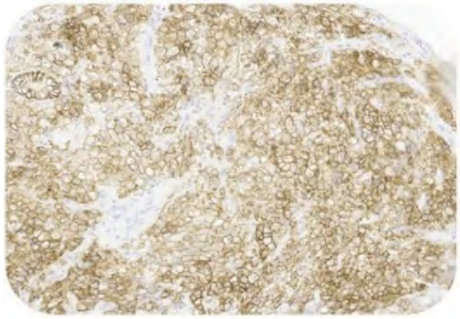


Human Gastric Tissue-40X

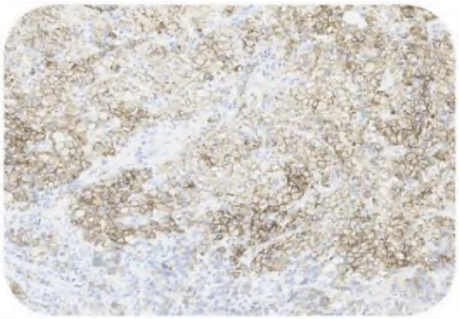
Cancer Sample

Consistency

LEICA BOND III and Dako link 48 platform conformance verification, with a high consistency rate (>95%).



LEICA BOND III

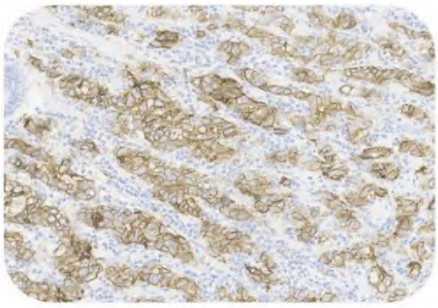


DAKO link 48

Use ACRO Claudin18.2 3B10 kit to stain gastric cancer. The results showed that the staining effect was highly consistent.

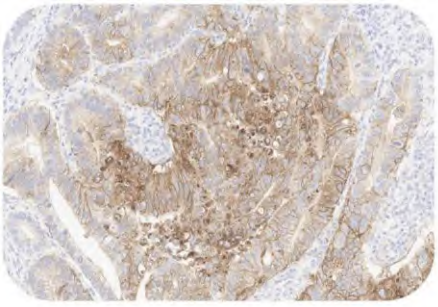
Extensibility

ACRO Claudin18.2 3B10 kit expandable test: gastric cancer, pancreatic cancer, colorectal cancer and ovarian Cancer.

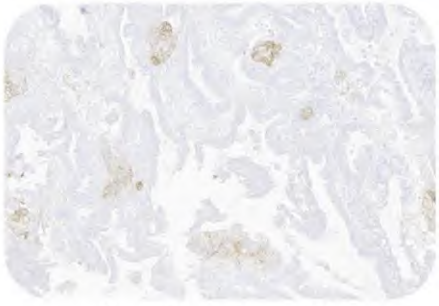


Human Gastric Cancer-20X

Human Pancreatic Cancer-20X



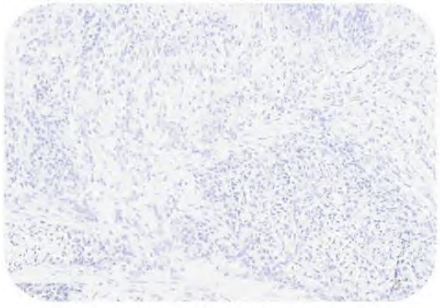
Human Colorectal Cancer, 20X



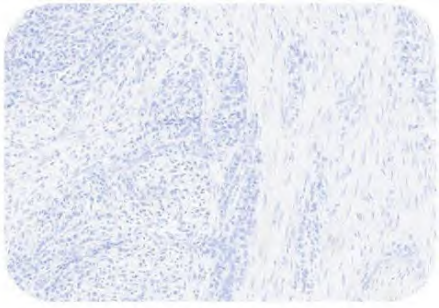
Human Ovarian Cancer, 20X

Applicability

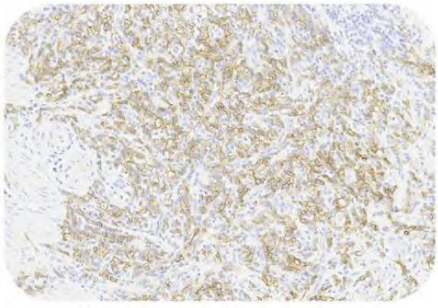
ACRO Claudin18.2 3B10 kit can be available on the LEICA BOND III and DAKO Link 48 platform.



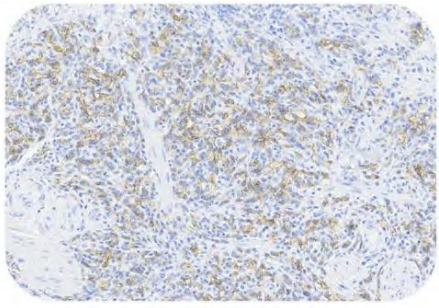
LEICA BOND III NSCLC-Negative



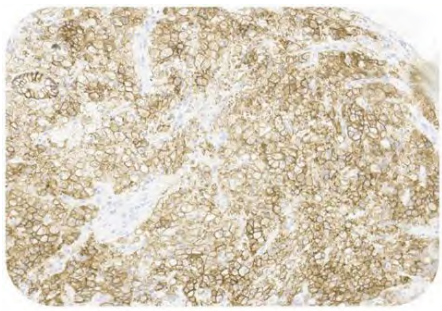
DAKO Link 48 NSCLC-Negative



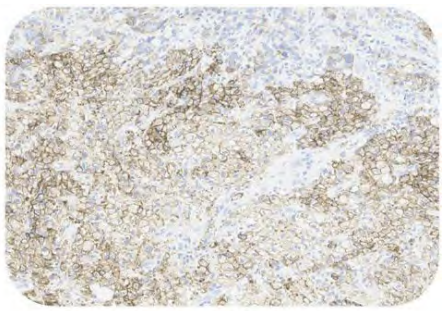
LEICA BOND III NSCLC-1%≤TC<50%



DAKO Link 48 NSCLC -1%≤TC<50%



LEICA BOND III NSCLC-50%≤TC≤100%



DAKO Link 48 NSCLC-50%≤TC≤100%