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# **Human CD26/DPP4 Ready-To-Use IHC Kit**

Cat.No: IHC0239H
Applications: IHC-P
Reactivity: Human
Size: 50T

Assay type: Immunohistochemistry

Sample type: FFPE tissue

General Information:

| Number | Component  | Size    | Concentration | Storage                   |
|--------|--|---------|---------------|---------------------------|
| 1      | PBS Buffer (powder)  | 2L×2    | 20x           | RT                        |
| 2      | Antigen Retrieval Buffer                                     | 20 ml   | 100x          | 2-8°C                     |
| 3      | Endogenous Peroxidase Blocking Buffer                        | 3 ml    | RTU           | 2-8°C, protect from light |
| 4      | Blocking Buffer  | 3 ml    | RTU           | 2-8°C                     |
| 5      | Primary Antibody (Human CD26/DPP4<br>Recombinant Rabbit mAb) | 6 ml    | RTU           | 2-8°C                     |
| 6      | Secondary Antibody (Goat Anti-Rabbit IgG<br>H&L / HRP)       | 6 ml    | RTU           | 2-8°C                     |
| 7      | Chromogen Component A  | 0.3 ml  | RTU           | -20°C,protect from light  |
| 8      | Chromogen Component B  | 0.3 ml  | RTU           | -20°C                     |
| 9      | Counter Staining Reagent                                     | 5 ml    | RTU           | RT                        |
| 10     | Mounting Media   | 5 ml    | RTU           | RT                        |
| 11     | Control slide (human kidney)                                 | 1 slide | RTU           | RT                        |
| 12     | Datasheet  | 1 сору  |               |                           |

Storage and

Please store components at the temperatures indicated on the individual tube labels. The

Stability: Immunohistoche

mistry Protocol:

## 1. Deparaffinization And Rehydration

kit is stable for 6 months from the date of receipt.

Immerse slides in fresh xylene for 15 minutes and then repeat two more times using separate containers. Immerse slides sequentially in 100%, 95%, 90%, 80%, and 70% ethanol solutions for 5 minutes each. Rinse slides 3 times with distilled water for 5 minutes each.

## 2. Antigen Retrieval

Add  $100 \times$  **Antigen Retrieval Buffer** into distilled water to prepare a  $1 \times$  solution. Boil slides in  $1 \times$  solution at 95°C-100°C for 15 minutes. Move the slides to  $1 \times$  solution at room temperature (RT) and allow them to stand for 20 minutes. Rinse 3 times with **PBS Buffer** (dissolve the powder in 2L distilled water) for 5 minutes each.

#### 3. Block Endogenous Peroxidase

Drain the liquid off the slides and then use a hydrophobic IHC pen to draw circles on the slides around tissue sections. Add 2-4 drops of **Endogenous Peroxidase Blocking Buffer** directly on slides, covering the whole tissue and block slides for 15 minutes at RT.

Rinse 3 times with **PBS Buffer** for 5 minutes each.

### 4. Serum Blocking

Block with 2-4 drops of **Blocking Buffer** for 20 minutes at RT.

#### 5. Primary Antibody Incubation

Drain blocking buffer from slides. Incubate slides with 2-4 drops of **Human CD26/DPP4 Recombinant Rabbit mAb** overnight at 4°C or 1-2 hours at RT. Rinse 3 times with **PBS Buffer** for 5 minutes each.

#### 6. Secondary Antibody Incubation

Incubate slides with 2-4 drops of **Goat Anti-Rabbit IgG H&L / HRP** for 1-2 hours at RT. Rinse slides 3 times with **PBS Buffer** for 5 minutes each.

#### 7. Signal Development

Remove residual liquid around the tissue section. Add 50ul fresh **DAB Buffer** (**Chromogen Component A : Chromogen Component B : PBS Buffer=1:1:18**) to cover the tissue. Monitor the reaction under the microscope until a brown color is visible (approximate 3-5 minutes at RT). Stop reaction immediately by rinsing with distilled water. Rinse slides 3 times with distilled water for 5 minutes each.

#### 8. Counterstain

Counterstain with an appropriate amount of **Counter Staining Reagent** for 3-5 minutes at RT. Rinse slides with distilled water for 5 minutes. Use 2-4 drops of **Differentiation reagent** to cover the tissue for 30 seconds. Rinse slides twice with distilled water for 5 minutes each.

#### 9. **Dehydration Sheet**

Immerse slides sequentially in 70%, 80%, 90%, 95%, and 100% ethanol for 5 minutes each at RT. Immerse slides in 2 changes of fresh xylene, 15 minutes each. Drop some **Mounting**Media on the tissue. Mount coverslips.

#### Notes:

- 1. The positive control slide provided in the kit allows you to be sure that the experimental set-up is working properly.
- 2. Do not allow slides to dry at any time during this procedure.

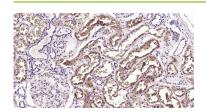
- 3. Please don't replace the matching reagents in this product with other manufacturers' products.
- 4. As DAB is a carcinogen, please take necessary precautions.
- 5. PBS (reagent 1) can be stored for one week at 4°C after preparation; The antigen retrieval buffer (1×reagent 2) and the chromogenic agent (the mixture of reagents 7 and 8) should be prepared right before each assay.

Please cite this product as "IHC0239H, Bioss Antibodies". Citation example: "Human
Tissue sections using DPP4 IHC Kit (IHC0239H, Bioss Antibodies) were stained for DPP4 according
to the manufacturer's instructions."

#### Introduction:

CD26 (dipeptidyl peptidase IV, DPP IV), adenosine deaminase (ADA) binding protein) is a homodimeric atypical serine protease belonging to the prolyl oligopeptidase family. CD26 is expressed on lymphocyte cells and is upregulated during T-cell activation. CD26 is also expressed on activated B cells and natural killer cells and abundantly on epithelia. CD26 is implicated in a variety of biological functions including T-cell activation, cell adhesion with extracellular matrix such as fibronectin or collagens, and in HIV infection. CD26 identical to adenosine deaminase complexing protein-2, and to the T-cell activation antigen CD26. Further, CD26 is an intrinsic membrane glycoprotein and a serine exopeptidase that cleaves X-proline dipeptides from the N-terminus of polypeptides. Alterations in CD26 peptidase activity are characteristic of malignant transformation, and the enzymatic activity increases dramatically with tumor grade and severity. CD26 is expressed in various blood cell types, but also in cells that are histogenetically related to activated fibroblasts. Alterations in CD26 density have been reported on circulating monocytes and CD4+ T cells during rheumatoid arthritis and systemic lupus erythematosus.

## Validation Data



Immunohistochemical analysis of paraffin embedded human kidney tissue slide using IHC0239H (Human CD26/DPP4 IHC Kit).