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Human Notch1 Ready-To-Use IHC Kit

Cat.No: IHC0211H
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 Notch1 Recombinant Rabbit mAb)	6 ml	RTU	2-8°C
6	Secondary Antibody (Goat Anti-Rabbit IgG 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 pancreas)	1 slide	RTU	RT
12	Datasheet	1 сору		

Storage and Stability:

Please store components at the temperatures indicated on the individual tube labels. The kit is stable for 6 months from the date of receipt.

Immunohistoche mistry Protocol:

1. Deparaffinization And Rehydration

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 (Pressure Cooker)

Prepare a 1x antigen retrieval solution by diluting the 100x Antigen Retrieval Buffer using distilled water. Add the appropriate amount of 1x antigen retrieval solution into the pressure cooker and place a heat-resistant staining container filled with the same solution inside the cooker. Heat the solution to boiling with the lid of the pressure cooker rested on

top without being secured. Once it's boiling, transfer the slides from the distilled water to the staining container inside the pressure cooker. Follow the manufacturer's instructions to secure the lid of the pressure cooker. As soon as the cooker reaches full pressure, time three minutes. After three minutes, move the pressure cooker to an empty sink and cool it down by running cold water over the cooker. Once depressurized, open the lid and transfer the staining container with the slides to room temperature. After 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 Notch1 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:

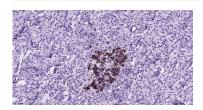
- 1. The positive control slide provided in the kit allows you to be sure that the experimental set-up is working properly.
- 2. Do not allow slides to dry at any time during this procedure.
- 3. Please don't replace the matching reagents in this product with other manufacturers' products.
- 4. As DAB 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 ($1 \times$ 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 "IHC0211H, Bioss Antibodies". Citation example: "Human Tissue sections using NOTCH1 IHC Kit (IHC0211H, Bioss Antibodies) were stained for NOTCH1 according to the manufacturer's instructions."

Introduction:

The notch gene belongs to a family of epidermal growth factor (EGF) like homeotic genes, which encode transmembrane proteins with a variable number of cysteine-rich EGF-like repeats in the extracellular region. Four notch genes have been described in mammals: Notch1, Notch2, Notch3 and Notch4(Int-3), which have been implicated in the differentiation of the nervous system and other structures. The EGF-like proteins Delta and Serrate have been identified as ligands of Notch1. Mature Notch proteins are heterodimeric receptors derived from the cleavage of Notch pre-proteins into an extracellular subunit (NEC) containing multiple EGF-like repeats and a transmembrane subunit including intracellular region (Ntm).

Validation Data



Immunohistochemical analysis of paraffin embedded human pancreas tissue slide using IHC0211H (Human Notch1 IHC Kit).