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# Human phospho-Nrf2 (Ser40) Ready-To-Use IHC Kit

Cat.No: IHC0352H

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 phospho-Nrf2 (Ser40) Recombinant Rabbit mAb)	6 ml	RTU	2-8°C
6	Secondary Antibody (Goat Anti-Rabbit IgG H&L, HRP conjugated)	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 tonsil)	1 slide	RTU	RT
12	Datasheet	1 сору		

Storage and

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

Stability:

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

Add  $100 \times$  Antigen Retrieval Buffer into distilled water to prepare a  $1 \times$  solution. Boil slides in  $1 \times$  solution at  $95^{\circ}$ C- $100^{\circ}$ 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 phospho-Nrf2** (Ser40) 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 conjugated** 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.

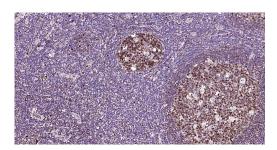
- 3. Please don't replace the matching reagents in this product with other manufacturers' products.
- 4. As DAB is a carcinogen, please take necessary precautions.
- 5. PBS (reagent 1) can be stored for one week at 4°C after preparation; The antigen retrieval buffer (1×reagent 2) and the chromogenic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

Please cite this product as "IHC0352H, Bioss Antibodies". Citation example: "Human Tissue sections using NFE2L2 IHC Kit (IHC0352H, Bioss Antibodies) were stained for NFE2L2 according to the manufacturer's instructions."

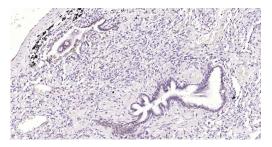
Introduction:

Nfr1 (also designated TCF11), Nrf2 and Nfr3 are bZIP transcription factors that heterodimer with Maf proteins to bind MARE (Maf recognition elements) sequences. Nrf2 is widely expressed and is thought to translocate to the nucleus after treatment with xenobiotics and antioxidants, which stimulate its release from a repressor protein Keap1.

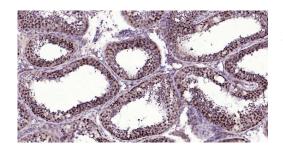
# **Validation Data**



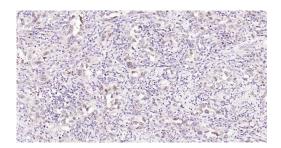
Immunohistochemical analysis of paraffin embedded human tonsil tissue slide using IHC0352H (Human phospho-Nrf2 (Ser40) Kit).



Immunohistochemical analysis of paraffin embedded human lung tissue slide using IHC0352H (Human phospho-Nrf2 (Ser40) Kit).



Immunohistochemical analysis of paraffin embedded human testis tissue slide using IHC0352H (Human phospho-Nrf2 (Ser40) Kit).



Immunohistochemical analysis of paraffin embedded human cervical cancer tissue slide using IHC0352H (Human phospho-Nrf2 (Ser40) Kit).