

Anti-Nrf2 (phospho S40) antibody [EP1809Y] ab76026

重组 RabMAb

★★★★★ **18 Abreviews** **180 References** **17 图像**

概述

产品名称	Anti-Nrf2 (phospho S40)抗体[EP1809Y]
描述	兔单克隆抗体[EP1809Y] to Nrf2 (phospho S40)
宿主	Rabbit
经测试应用	适用于: Dot blot, ICC/IF, IHC-P, Flow Cyt (Intra), WB 不适用于: IP
种属反应性	与反应: Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers. (Peptide available as ab133404)
阳性对照	WB: HepG2 whole cell lysate (ab7900). IHC-P: Human tonsil, breast carcinoma, ovarian carcinoma and cervical carcinoma tissue. ICC/IF: HepG2 cells. Flow Cyt (intra): Jurkat cells.
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: <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 For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents . Rat: We have preliminary internal testing data to indicate this antibody may not react with this species. Please contact us for more information.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol, 0.05% BSA
纯度	Protein A purified

克隆	单克隆
克隆编号	EP1809Y
同种型	IgG

应用

The Abpromise guarantee Abpromise™承诺保证使用ab76026于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

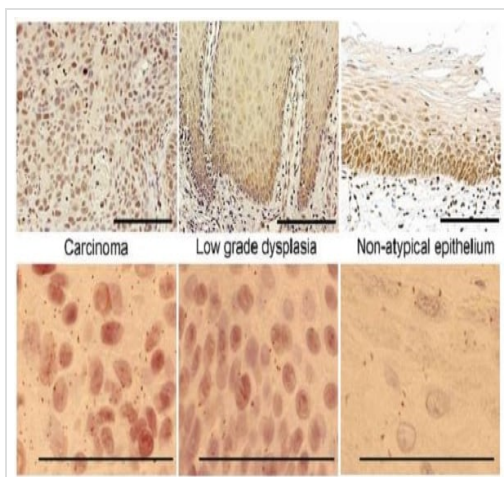
应用	Ab评论	说明
Dot blot		Use at an assay dependent concentration.
ICC/IF	★★★★★ (1)	1/100 - 1/250.
IHC-P	★★★★☆ (3)	1/100 - 1/500. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See IHC antigen retrieval protocols .
Flow Cyt (Intra)		1/80 - 1/100. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB	★★★★☆ (13)	1/5000 - 1/50000. Predicted molecular weight: 68 kDa.

应用说明 Is unsuitable for IP.

靶标

功能	Transcription activator that binds to antioxidant response (ARE) elements in the promoter regions of target genes. Important for the coordinated up-regulation of genes in response to oxidative stress. May be involved in the transcriptional activation of genes of the beta-globin cluster by mediating enhancer activity of hypersensitive site 2 of the beta-globin locus control region.
组织特异性	Widely expressed. Highest expression in adult muscle, kidney, lung, liver and in fetal muscle.
序列相似性	Belongs to the bZIP family. CNC subfamily. Contains 1 bZIP domain.
结构域	Acidic activation domain in the N-terminus, and DNA binding domain in the C-terminus.
翻译后修饰	Phosphorylation of Ser-40 by PKC in response to oxidative stress dissociates NFE2L2 from its cytoplasmic inhibitor KEAP1, promoting its translocation into the nucleus.
细胞定位	Cytoplasm > cytosol. Nucleus. Cytosolic under unstressed conditions, translocates into the nucleus upon induction by electrophilic agents.

图片



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Nrf2 (phospho S40) antibody [EP1809Y] (ab76026)

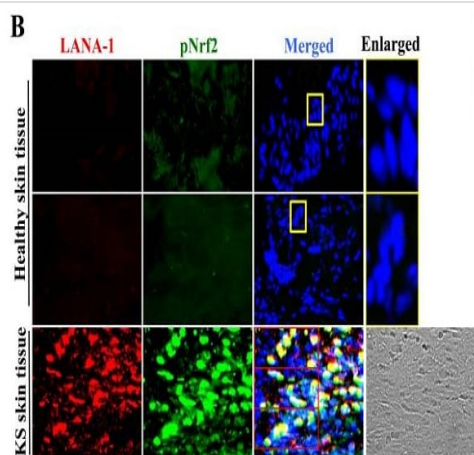
Inui et al PLoS One. 2013 Sep 24;8(9):e74398. doi: 10.1371/journal.pone.0074398. eCollection 2013. Fig 2. Reproduced under the Creative Commons license <http://creativecommons.org/licenses/by/4.0/>

Nrf2 was abundantly expressed in carcinomas, low grade dysplasias, and non-atypical epithelia of oral tissue.

Representative findings of Nrf2 staining in carcinoma (left), in low grade dysplasia (middle), and in non-atypical epithelium (right).

Corresponding PLA signals are displayed in the lower row. Scale bar; 100 μ m.

Surgical specimens were transferred to 10% buffered formalin and fixed overnight. The fixed samples were embedded in paraffin, and serially sliced into 5 μ m sections. After dewaxing, sections were autoclaved at 120°C for 1 min in 10 mM sodium citrate buffer (pH 6.0), and immersed in 0.3% H₂O₂. They were then incubated overnight at 4°C with primary antibody to Nrf2 (diluted 1:200). The sections were rinsed with 1×PBS and incubated with the secondary antibody conjugated with horseradish peroxidase at room temperature for 1 hour. The sections were then stained with 3,3'-diaminobenzidine tetrahydrochloride (DAB) and counterstained with hematoxylin.



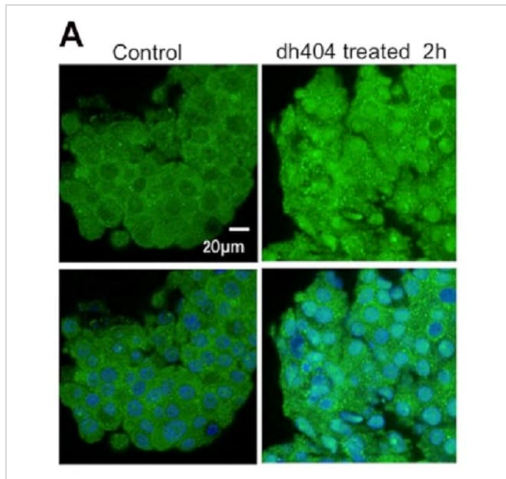
Immunocytochemistry/ Immunofluorescence - Anti-Nrf2 (phospho S40) antibody [EP1809Y] (ab76026)

Giyshi et al PLoS Pathog. 2014 Oct 23;10(10):e1004460. doi: 10.1371/journal.ppat.1004460. eCollection 2014 Oct. Fig 1. Reproduced under the Creative Commons license <http://creativecommons.org/licenses/by/4.0/>

Immunofluorescence analysis of Nrf2 levels in Kaposi's sarcoma skin lesions.

B) Healthy skin (top two rows) and KS skin tissue (bottom row) were double-stained for LANA-1 (Alexa-Fluor 594- red) and host phosphorylated pNrf2 (ab76026) (Alexa-Fluor®488 – green). DAPI was used to visualize the nuclei, and the triple merge of LANA-1, pNrf2 and DAPI is shown in the third column.

Yellow square=enlarged area.

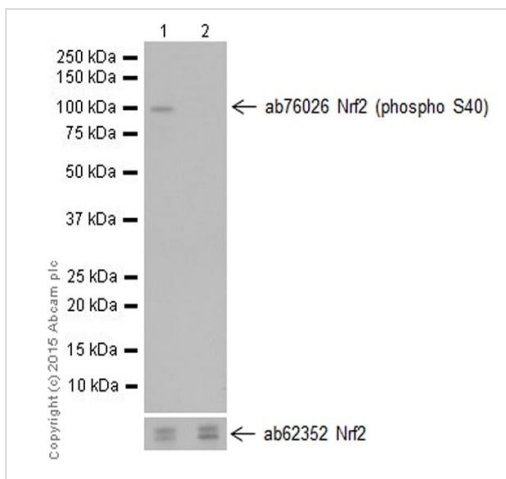


Immunocytochemistry/ Immunofluorescence - Anti-Nrf2 (phospho S40) antibody [EP1809Y] (ab76026)

Masuda et al PLoS One. 2015 Jun 25;10(6):e0131012. doi: 10.1371/journal.pone.0131012. eCollection 2015. Fig 1. Reproduced under the Creative Commons license <http://creativecommons.org/licenses/by/4.0/>

Nrf2 Translocation from cytoplasm to nucleus.

(A) Human islets were treated with dh404 for 0.5, 1 or 2 hours. The treated and untreated samples were stained with Nrf2 antibody ab76026 (Green) and DAPI (Blue). The confocal microscope clearly showed that the Nrf2 translocation from cytoplasm to nucleus in the dh404 treated human islet cells



Western blot - Anti-Nrf2 (phospho S40) antibody [EP1809Y] (ab76026)

All lanes : Anti-Nrf2 (phospho S40) antibody [EP1809Y] (ab76026) at 1/50000 dilution (purified)

Lane 1 : untreated HepG2 cell lysate

Lane 2 : HepG2 treated with phosphatase lysate

Lysates/proteins at 10 µg per lane.

Secondary

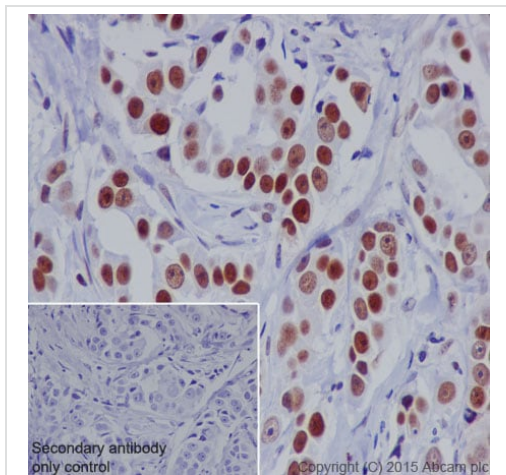
All lanes : HRP goat anti-rabbit IgG (H+L) at 1/20000 dilution

Predicted band size: 68 kDa

Observed band size: 90 kDa

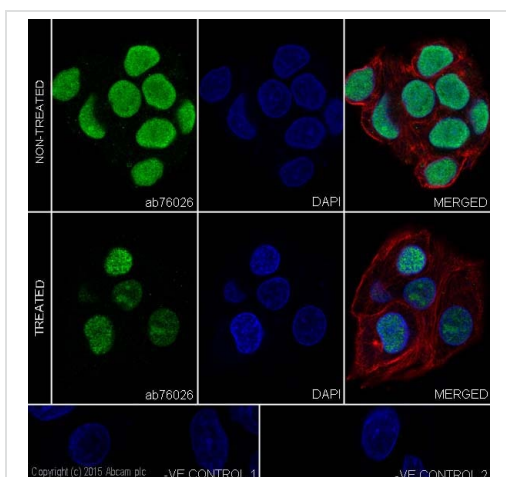
Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



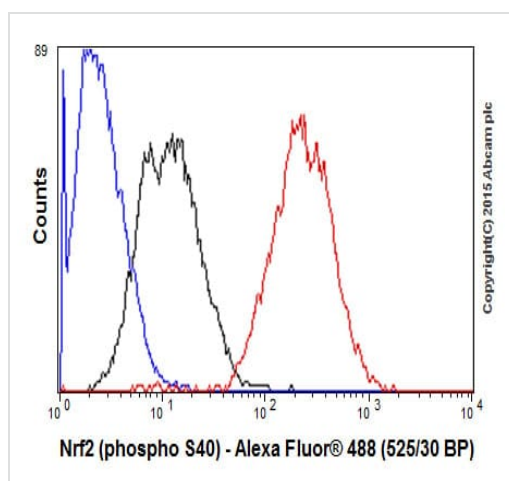
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Nrf2 (phospho S40) antibody [EP1809Y] (ab76026)

Immunohistochemical staining of paraffin embedded human breast carcinoma with purified ab76026 at a working dilution of 1/500. The secondary antibody used is HRP goat anti-rabbit IgG H&L ([ab97051](#)) at 1/500. The sample is counter-stained with hematoxylin. Antigen retrieval was performed using Tris-EDTA buffer, pH 9.0. PBS was used instead of the primary antibody as the negative control, and is shown in the inset.



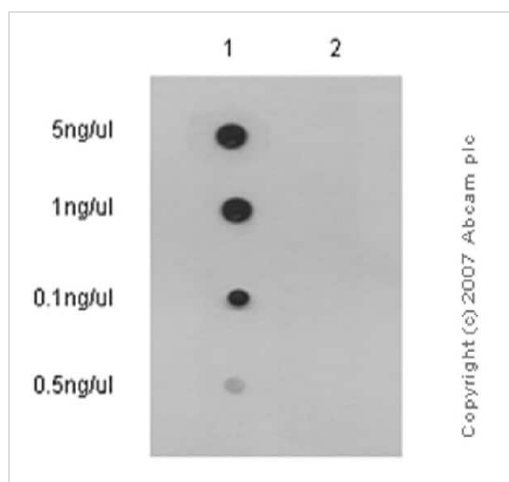
Immunocytochemistry/ Immunofluorescence - Anti-Nrf2 (phospho S40) antibody [EP1809Y] (ab76026)

Immunofluorescence staining of HepG2 cells with purified ab76026 at a working dilution of 1/100, counter-stained with DAPI. The treated cells were treated with alkaline phosphatase for 1 h at 37°C. The secondary antibody was Alexa Fluor® 488 goat anti-rabbit ([ab150077](#)), used at a dilution of 1/1000. [ab7291](#), a mouse anti-tubulin antibody (1/1000), was used to stain tubulin along with [ab150120](#) (Alexa Fluor® 594 goat anti-mouse, 1/1000), shown in the top right hand panel. The cells were fixed in 4% PFA and permeabilized using 0.1% Triton X 100. The negative controls are shown in bottom middle and right hand panels - for negative control 1, purified ab76026 was used at a dilution of 1/500 followed by an Alexa Fluor® 594 goat anti-mouse antibody ([ab150120](#)) at a dilution of 1/500. For negative control 2, [ab7291](#) (mouse anti-tubulin) was used at a dilution of 1/500 followed by an Alexa Fluor® 488 goat anti-rabbit antibody ([ab150077](#)) at a dilution of 1/400.



Flow Cytometry (Intracellular) - Anti-Nrf2 (phospho S40) antibody [EP1809Y] (ab76026)

Overlay histogram showing Jurkat cells fixed in 4% PFA and stained with purified ab76026 at a dilution of 1 in 80 (red line). The secondary antibody used was FITC goat anti-rabbit at a dilution of 1 in 500. Rabbit monoclonal IgG was used as an isotype control (black line) and cells incubated in the absence of both primary and secondary antibody were used as a negative control (blue line).

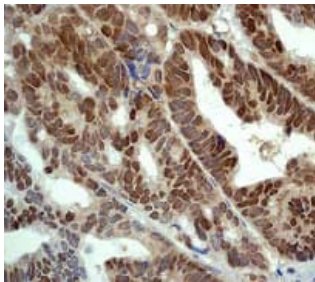


Dot Blot - Anti-Nrf2 (phospho S40) antibody [EP1809Y] (ab76026)

Dot blot analysis of Nrf2 peptides using unpurified ab76026 at 1/1000 dilution followed by Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated secondary antibody at 1/1000 dilution. Blocking and diluting buffer was 5% NFDM/TBST.

Lane 1: Nrf2 (pS40) phospho peptide

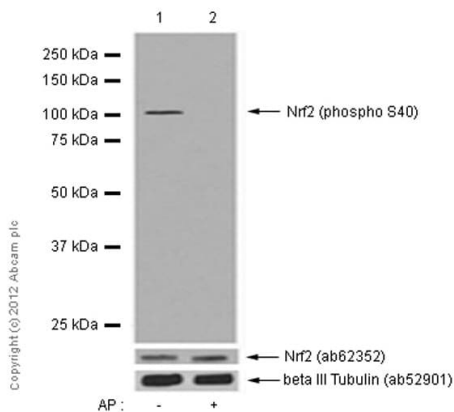
Lane 2: Nrf2 non-phospho peptide



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Nrf2 (phospho S40) antibody [EP1809Y] (ab76026)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma using unpurified ab76026 at 1/100 dilution.

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



Western blot - Anti-Nrf2 (phospho S40) antibody [EP1809Y] (ab76026)

All lanes : Anti-Nrf2 (phospho S40) antibody [EP1809Y] (ab76026) at 1/10000 dilution (unpurified)

Lane 1 : Untreated HepG2 (human hepatocellular carcinoma) whole cell lysates 20µg

Lane 2 : HepG2 (human hepatocellular carcinoma) treated with Alkaline Phosphatase (AP) whole cell lysates 20µg.

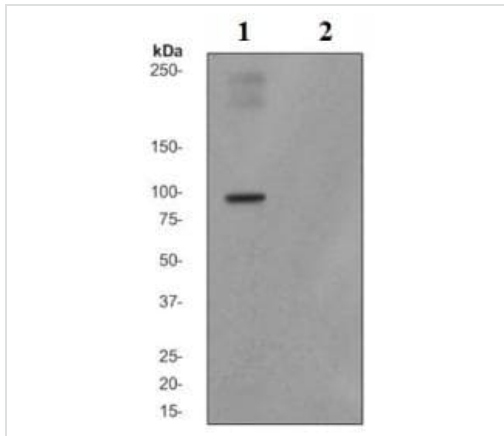
Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/1000 dilution

Predicted band size: 68 kDa

Observed band size: 100 kDa

Blocking buffer: 5% NFDM/TBST, dilution buffer: 5% NFDM /TBST, exposure time: 15 seconds



Western blot - Anti-Nrf2 (phospho S40) antibody [EP1809Y] (ab76026)

All lanes : Anti-Nrf2 (phospho S40) antibody [EP1809Y] (ab76026) at 1/20000 dilution (unpurified)

Lane 1 : HepG2 cell lysate

Lane 2 : HepG2 cell lysate treated with AP

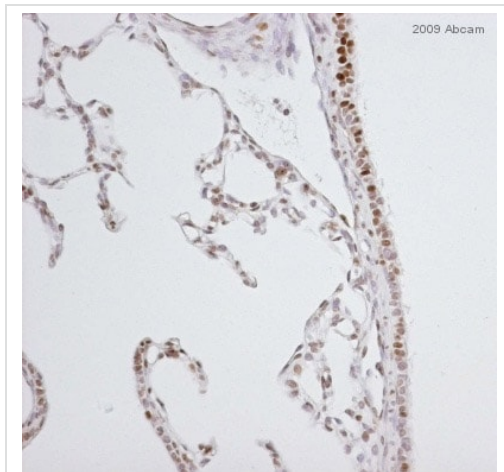
Lysates/proteins at 10 µg per lane.

Secondary

All lanes : HRP labelled goat anti-rabbit at 1/1000 dilution

Predicted band size: 68 kDa

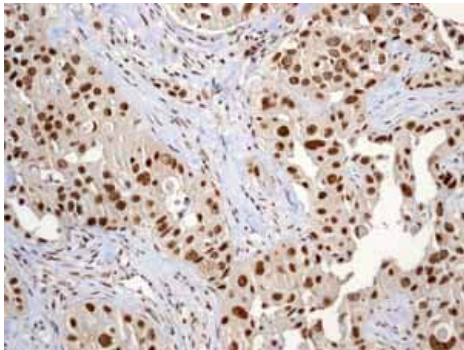
Observed band size: 90 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Nrf2 (phospho S40) antibody [EP1809Y] (ab76026)

This image is courtesy of an anonymous Abreview

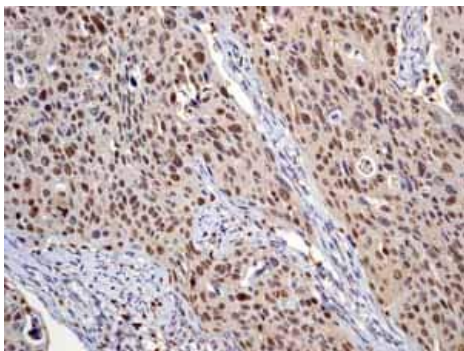
Unpurified ab76026 staining Nrf2 (phospho S40) in Human normal lung tissue sections by IHC-P (Formaldehyde-fixed paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 1% casein for 30 minutes at 4°C. Antigen retrieval was by heat mediation. Samples were incubated with primary antibody (1/50) in 1% casein for 24 hours at 4°C. An undiluted HRP-conjugated Goat polyclonal to rabbit IgG was used as the secondary antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Nrf2 (phospho S40) antibody [EP1809Y] (ab76026)

Unpurified ab76026 showing positive staining in Breast carcinoma tissue.

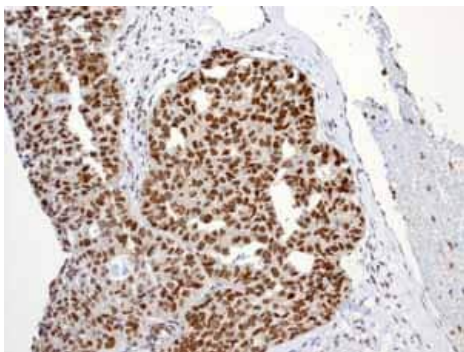
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Nrf2 (phospho S40) antibody [EP1809Y] (ab76026)

Unpurified ab76026 showing positive staining in Cervical carcinoma tissue.

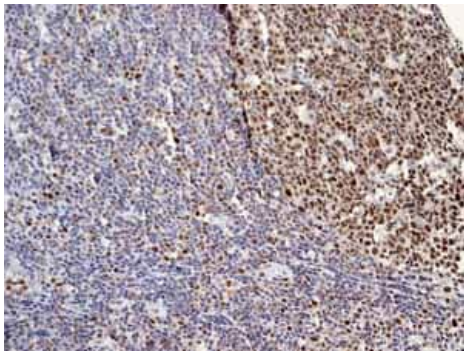
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Nrf2 (phospho S40) antibody [EP1809Y] (ab76026)

Unpurified ab76026 showing positive staining in Ovarian carcinoma tissue.

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

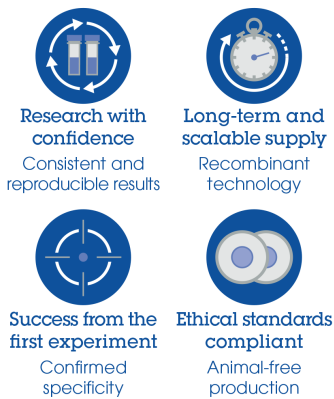


Unpurified ab76026 showing positive staining in Normal tonsil tissue.

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

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Nrf2 (phospho S40) antibody [EP1809Y] (ab76026)

Why choose a recombinant antibody?



Anti-Nrf2 (phospho S40) antibody [EP1809Y] (ab76026)

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