

Product datasheet

Anti-E2F4 antibody [EPR8259] ab150360

KO VALIDATED Recombinant RabMAB

★★★★☆ [3 Abreviews](#) [6 References](#) [9 Images](#)

Overview

Product name	Anti-E2F4 antibody [EPR8259]
Description	Rabbit monoclonal [EPR8259] to E2F4
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P Unsuitable for: Flow Cyt, ICC/IF or IP
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide within Human E2F4 aa 250-350. The exact sequence is proprietary. Database link: Q16254
Positive control	WB: HEK293T, K562, Raji, HeLa, and Jurkat (ab7899) cell lysates. IHC-P: Human kidney and lung adenocarcinoma tissues.
General notes	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 .

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR8259

Isotype

IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab150360 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★ ★ ★ ★ ☆ (2)	1/1000 - 1/10000. Detects a band of approximately 60 kDa (predicted molecular weight: 44 kDa).
IHC-P		1/250 - 1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Application notes

Is unsuitable for Flow Cyt, ICC/IF or IP.

Target

Function

Transcription activator that binds DNA cooperatively with DP proteins through the E2 recognition site, 5'-TTTC[CG]CGC-3' found in the promoter region of a number of genes whose products are involved in cell cycle regulation or in DNA replication. The DRTF1/E2F complex functions in the control of cell-cycle progression from G1 to S phase. E2F-4 binds with high affinity to RBL1 and RBL2. In some instances, can also bind RB protein.

Tissue specificity

Found in all tissue examined including heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas.

Sequence similarities

Belongs to the E2F/DP family.

Developmental stage

Present in the growth-arrested state, its abundance does not change significantly as cells move into and through the cell cycle.

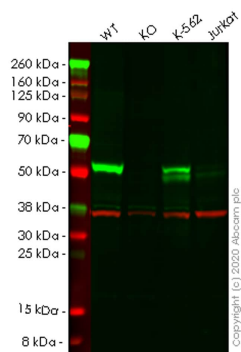
Post-translational modifications

Differentially phosphorylated in vivo.

Cellular localization

Nucleus.

Images



Western blot - Anti-E2F4 antibody [EPR8259]
(ab150360)

All lanes : Anti-E2F4 antibody [EPR8259] (ab150360) at 1/1000 dilution

Lane 1 : Wild-type HEK293T cell lysate

Lane 2 : E2F4 knockout HEK293T cell lysate

Lane 3 : K-562 cell lysate

Lane 4 : Jurkat cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

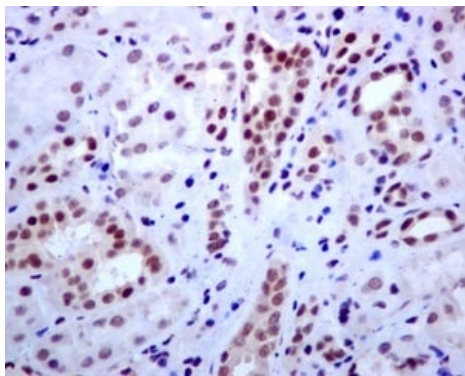
All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed ([ab216773](#)) at 1/10000 dilution

Predicted band size: 44 kDa

Observed band size: 60 kDa

Lanes 1-4: Merged signal (red and green). Green - ab150360 observed at 60 kDa. Red - loading control [ab8245](#) observed at 36 kDa.

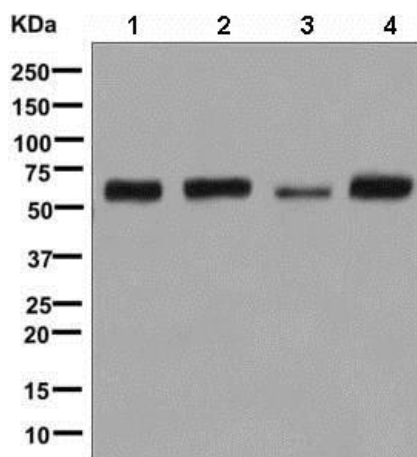
ab150360 Anti-E2F4 antibody [EPR8259] was shown to specifically react with E2F4 in wild-type HEK293T cells. Loss of signal was observed when knockout cell line [ab266119](#) (knockout cell lysate [ab257932](#)) was used. Wild-type and E2F4 knockout samples were subjected to SDS-PAGE. ab150360 and Anti-GAPDH antibody [6C5] - Loading Control ([ab8245](#)) were incubated at room temperature for 2.5 hours at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed ([ab216776](#)) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-E2F4 antibody [EPR8259] (ab150360)

Immunohistochemical analysis of paraffin embedded Human kidney tissue labelling E2F4 with ab150360 antibody at a dilution of 1/250.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Western blot - Anti-E2F4 antibody [EPR8259] (ab150360)

All lanes : Anti-E2F4 antibody [EPR8259] (ab150360) at 1/1000 dilution

Lane 1 : K562 cell lysate

Lane 2 : Raji cell lysate

Lane 3 : HeLa cell lysate

Lane 4 : Jurkat cell lysate

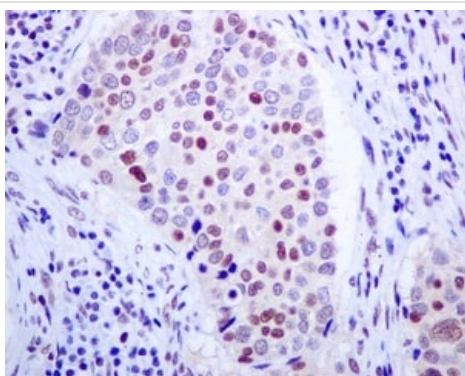
Lysates/proteins at 10 µg per lane.

Secondary

All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 44 kDa

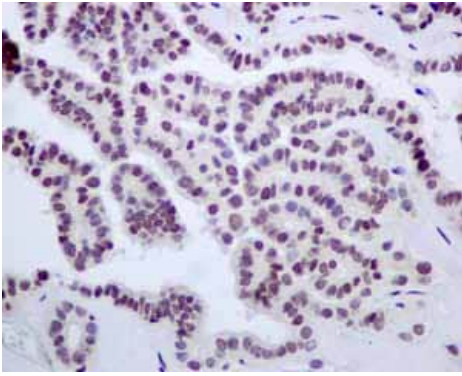
Observed band size: 60 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-E2F4 antibody [EPR8259] (ab150360)

Immunohistochemical analysis of paraffin embedded Human lung adenocarcinoma tissue labelling E2F4 with ab150360 antibody at a dilution of 1/250.

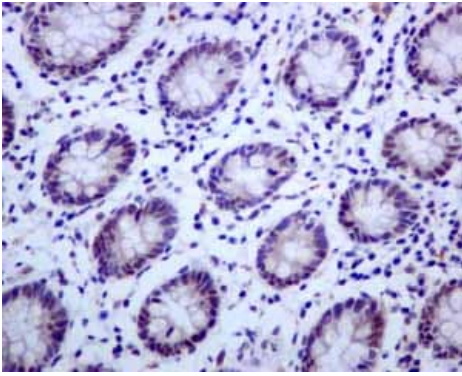
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-E2F4 antibody [EPR8259] (ab150360)

Immunohistochemical analysis of paraffin embedded Human Thyroid gland papillary carcinoma tissue using ab150360 showing +ve staining.

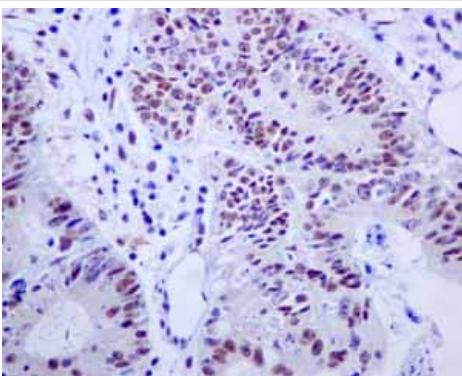
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-E2F4 antibody [EPR8259] (ab150360)

Immunohistochemical analysis of paraffin embedded Normal Human Colon tissue using ab150360 showing +ve staining.

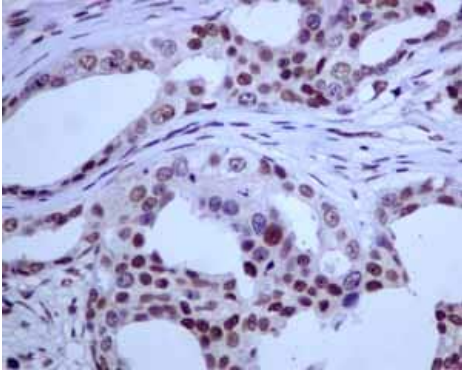
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-E2F4 antibody [EPR8259] (ab150360)

Immunohistochemical analysis of paraffin embedded Human Colonic adenocarcinoma tissue using ab150360 showing +ve staining.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemical analysis of paraffin embedded Human Breast carcinoma tissue using ab150360 showing +ve staining.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-E2F4 antibody [EPR8259] (ab150360)

Why choose a recombinant antibody?



Anti-E2F4 antibody [EPR8259] (ab150360)

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