

E2F7-B Antibody

#Cat: NB-19-0007

Size: 0,1ml

Immunogen Data

Description: Belongs to the E2F/DP family and inhibits the E2F-dependent transcription. Binds DNA independently of DP proteins through the E2F recognition site, 5'-TTTC[CG]CGC-3'. Appears to regulate a subset of E2F-dependent genes whose products are required for normal cell cycle progression. Modulates the activity of other E2F proteins, such as E2F1, probably by competing or displacing activating E2Fs from binding to its promoter. E2F7 acts upstream of E2F1, limiting its expression, and thus influencing the ability of cells to undergo a DNA-damage response and apoptosis. This role is critical for mouse development.

Immunogen: KLH-conjugated synthetic peptide common to isoforms 1 and 2 of E2F7.

Alternative names: E2F7 isoform 1 and E2F7 isoform 2 or E2F7-B and E2F7-A, respectively.

UniProt ID: Q96AV8-1 and Q96AV8-2.

Mol. Weight: 99.8 KDa and 88.8KDa respectively.

Antibody Data

Host: Rabbit

Clonality: Polyclonal

Species Reactivity: Human. Its reactivity against other species has not been determined.

Volume: 100 µl.

Purity: Crude polyclonal rabbit serum.

Storage Buffer: Without preservatives.

Storage Instruction: Aliquot and store at -20°C for short term or -80°C for long term. Avoid freeze-thaw cycles.

Tested applications

WB, IP and EMSA. The usefulness of this product in other applications has not been determined.

Recommended Dilutions:

WB: 1:5000

EMSA: 2 µl of undiluted pab

IP: 2 µl of undiluted pab

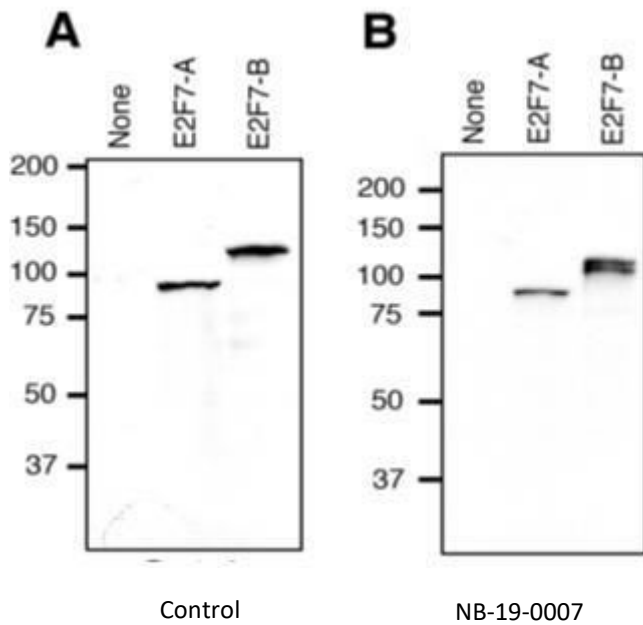
Background references

- (1) Di Stefano, L. et al. (2003) *EMBO J.* 22:6289-6298.
- (2) Logan, N. et al. (2004) *Oncogene.* 23:5138-5150.
- (3) Zalmas, L.P. et al. (2008) *EMBO Rep.* 9:252-259.
- (4) Jing, L. et al. (2008) *Dev. Cell.* 14:62-75.

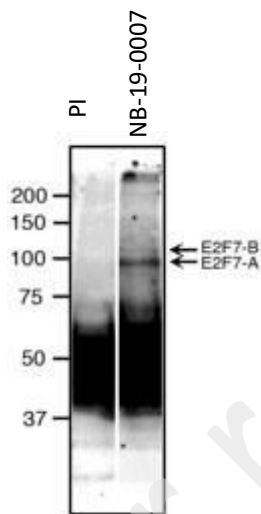
For Research Use Only. Not for Diagnostic or Therapeutic

Applicated references

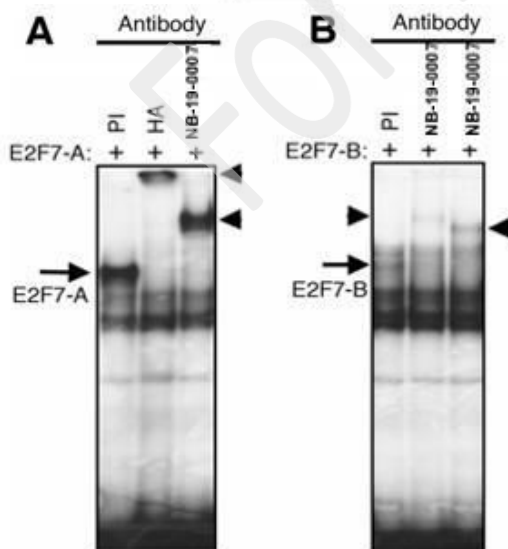
Alvaro-Blanco, J. et al. (2009) Carcinogenesis. Jan 6 30:440-8



1. The NB-19-0007 Antibody recognizes E2F7 isoforms 1 (E2F7-B) and 2 (E2F7-A). Whole cell extracts (10 µg) from Saos-2 cells transfected with either mock pcDNA3 (None), pcDNA3-HA-E2F7-A (E2F7-A), or pcDNA3-HA-E2F7-B (E2F7-B) were fractionated on an 8% SDS-PAGE, transferred to nitrocellulose membranes, and probed with a previously described anti-E2F7 antibody (Control) (1) or the anti-E2F7 NB-19-0007 antibody. Peroxidase-conjugated anti-rabbit antibodies followed by ECL were then used. As shown in panel B, the NB-19-0007 antibody recognizes both E2F7-A and E2F7-B.



2. The NB-19-0007 Antibody immunoprecipitates endogenous E2F7-A and E2F7-B. 500 µg of whole cell extracts from K562 cells were immunoprecipitated with 2 µl of the NB-19-0007 crude rabbit serum or the corresponding pre-immune serum (PI). Immunoprecipitated proteins were fractionated on 8% SDS-PAGE and transferred to nitrocellulose membranes. The membranes were then probed with a previously described anti-E2F7 antibody (1). Peroxidase-conjugated anti-rabbit antibodies followed by ECL were then used. The arrows point to immunoprecipitated E2F7-A and E2F7-B.



3. The anti-E2F7 NB-19-0007 antibody is able to supershift DNA-protein complexes that contain either E2F7-A or E2F7-B. Complex formation employing a radiolabeled E2F element from the human DHFR promoter and nuclear extracts from Saos-2 cells transfected with either pcDNA3-HA-E2F7-A (A) or pcDNA3-HA-E2F7-B (B) were analyzed by EMSA. Extracts were preincubated in the presence of an antibody to the HA tag, the anti-E2F7-B (NB-19-0007), the anti-E2F7 NB-19-0007 antibody, or the corresponding pre-immune serum (PI). The arrow indicates the position of the HA-E2F7-A- or HA-E2F7-B-containing complexes, whereas arrowheads indicate the position of super-shifted complexes.

For Research Use Only. Not for Diagnostic or Therapeutic

Neo Biotech

74 rue des Suisses – 92000 Nanterre