

Product datasheet

Recombinant Human E2F1 protein ab82207

1 References

Description

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| Product name | Recombinant Human E2F1 protein |
| Purity | > 95 % SDS-PAGE. Purified by a combination of affinity chromatography and FPLC chromatography. |
| Expression system | Baculovirus infected insect cells |
| Protein length | Full length protein |
| Animal free | No |
| Nature | Recombinant |
| Species | Human |

Specifications

Our **Abpromise guarantee** covers the use of **ab82207** in the following tested applications.

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

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| Applications | SDS-PAGE Gel Supershift Assays Functional Studies EMSA |
| Form | Liquid |

Preparation and Storage

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| Stability and Storage | Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 7.9 Constituents: 0.75% Potassium chloride, 0.0154% DTT, 0.316% Tris HCl, 0.00584% EDTA, 20% Glycerol (glycerin, glycerine) |
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General Info

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| 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-1 binds preferentially RB1 protein, in a cell-cycle dependent manner. It can mediate both cell proliferation and p53-dependent apoptosis.

Sequence similarities

Belongs to the E2F/DP family.

Post-translational modifications

Phosphorylated by CDK2 and cyclin A-CDK2 in the S-phase.

Acetylation stimulates DNA-binding. Enhanced under stress conditions such as DNA damage and inhibited by retinoblastoma protein pRB. Regulated by KAP1/TRIM28 which recruits HDAC1 to E2F1 resulting in deacetylation. Acetylated by P/CAF/KAT2B.

Cellular localization

Nucleus.

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