SunLong Biotech Co.,LTD
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[Marker Primary Antibody]

Rabbit Anti-phospho-E2F1 (Ser337)/HRP Conjugated antibody

Catalog Number: SL5305R-HRP

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-phospho-E2F1 (Ser337)/HRP
Immunogen:	KLH conjugated Synthesised phosphopeptide derived from human E2F1 around the phosphorylation site of Ser337
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse(predicted:Horse)
Background:	background: E2F's are DNA binding proteins, which associate with negative regulators, such as the retinoblastoma p107 protein, resulting in an altered rate of gene transcription. The E2F proteins contain several evolutionally conserved domains found in most members of the family. These domains include a DNA binding domain, a dimerization domain which determines interaction with the differentiation regulated transcription factor proteins (DP), a transactivation domain enriched in acidic amino acids, and a tumor suppressor protein association domain which is embedded within the transactivation domain. This protein and another 2 members, E2F2 and E2F3, have an additional cyclin binding domain. E2F1 is proposed to be involved in several cellular processes that range from tumor suppressor, cell progression and oncogenesis. E2F1 overexpression can also drive cells into apoptosis.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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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. **Subunit:** Component of the DRTF1/E2F transcription factor complex. Forms heterodimers with DP family members. The E2F-1 complex binds specifically hypophosphorylated retinoblastoma protein RB1. During the cell cycle, RB1 becomes phosphorylated in mid-to-late G1 phase, detaches from the DRTF1/E2F complex, rendering E2F transcriptionally active. Interacts with TRRAP, which probably mediates its interaction with histone acetyltransferase complexes, leading to transcription activation. Binds TOPBP1. Interacts with ARID3A (By similarity). Binds EAPP. **Subcellular Location:** Nucleus. **Post-translational modifications:** Phosphorylated by CDK2 and cyclin A-CDK2 in the S-phase (By similarity). **Similarity:** Belongs to the E2F/DP family. **Database links:** **Entrez Gene:** 1869 Human Omim: 189971 Human **SwissProt:** Q01094 Human **Unigene:** 654393 Human Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. E2F1 belongs to the regulatory transcription factor E2F family. Some scholars believe that E2F-1 can function both as an oncogene and as a tumor suppressor gene. This difference may be determined by the levels and/or activities of other growth-promoting or growth-inhibitory proteins in the cell, and is also related to the cellular environment and organ specificity. It plays a key role in controlling the cell cycle and the activity of Tumour suppressor gene proteins.

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