

Product Name: KD-Validated E2F Transcription Factor 4 Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA00718

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2,500; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 44.0kDa

Antigen Information

Gene Name	E2F4
Alternative Names	E2F4; E2F Transcription Factor 4; E2F-4; E2F Transcription Factor 4, P107/P130-Binding; Transcription Factor E2F4; P107/P130-Binding Protein
Gene ID	1874.0
SwissProt ID	Q16254
Immunogen	A synthesized peptide derived from human E2F4

Background

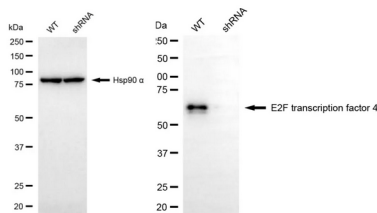
The protein encoded by this gene is a member of the E2F family of transcription factors. The E2F family plays a crucial role in the control of cell cycle and action of tumor suppressor proteins and is also a target of the transforming proteins of small DNA

tumor viruses. 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 binds to all three of the tumor suppressor proteins pRB, p107 and p130, but with higher affinity to the last two. It plays an important role in the suppression of proliferation-associated genes, and its gene mutation and increased expression may be associated with human cancer. [provided by RefSeq, Jul 2008]

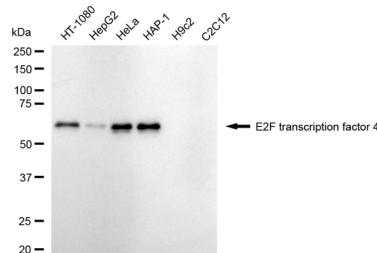
Research Area

Epigenetics and Nuclear Signaling, Stem Cells

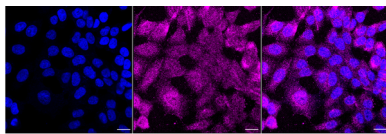
Image Data



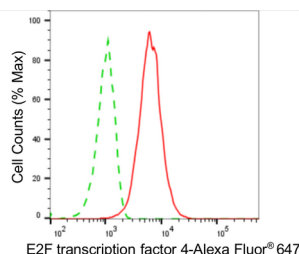
Western blotting analysis using E2F transcription factor 4 antibody (KVA00718). E2F transcription factor 4 expression in wild type (WT) and E2F transcription factor 4 (E2F4) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with E2F transcription factor 4 antibody (KVA00718, 1:2,500) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using E2F transcription factor 4 antibody (KVA00718). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with E2F transcription factor 4 antibody (KVA00718, 1:2,500) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HAP-1 cells with E2F transcription factor 4 antibody (KVA00718, 1:1,000). Nuclei were stained blue with DAPI; E2F transcription factor 4 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



Flow cytometric analysis of E2F transcription factor 4 expression in HAP-1 cells using E2F transcription factor 4 antibody (KVA00718, 1:2,000). Green, isotype control; red, E2F transcription factor 4.