Product Name: Dbf4 Rabbit Polyclonal Antibody
Catalog #: APRab09812
For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,IHC,ICC/IF,ELISA
Reactivity	Human,Mouse,Monkey
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:5000-1:20000
Molecular Weight	77kDa

Antigen Information

Gene Name	DBF4
Alternative Names	DBF4; ASK; DBF4A; ZDBF1; Protein DBF4 homolog A; Activator of S phase kinase; Chiffon homolog A; DBF4-type zinc finger-containing protein 1
Gene ID	10926.0
SwissProt ID	Q9UBU7
Immunogen	The antiserum was produced against synthesized peptide derived from human DBF4. AA range:10-59

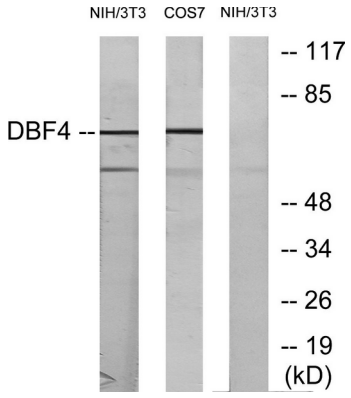
Background

function:Regulatory subunit for CDC7 which activates its kinase activity thereby playing a central role in DNA replication and cell proliferation. Required for progression of S phase. The complex CDC7-DBF4A selectively phosphorylates MCM2 subunit at 'Ser-40' and 'Ser-53' and then is involved in regulating the initiation of DNA replication during cell cycle.,induction:Induced in G1 phase at low level, increased during G1-S phase and remain high during S and G2-M phase.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Contains 1 DBF4-type zinc finger.,similarity:Contains 2 BRCT domains.,subunit:Forms a complex with CDC7. Note that CDC7 forms distinct complex either with DBF4A or DBF4B. Such complexes are stable upon replication stress. Interacts with MEN1, MCM2, ORC2L, ORC4L and ORC6L.,tissue specificity:Highly expressed in testis and thymus. Expressed also in most cancer cells lines.,function:Regulatory subunit for CDC7 which activates its kinase activity thereby playing a central role in DNA replication and cell proliferation. Required for progression of S phase. The complex CDC7-DBF4A selectively phosphorylates MCM2 subunit at 'Ser-40' and 'Ser-53' and then is involved in regulating the initiation of DNA replication during cell cycle.,induction:Induced in G1 phase at low level, increased during G1-S phase and remain high during S and G2-M phase.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Contains 1 DBF4-type zinc finger.,similarity:Contains 2 BRCT domains.,subunit:Forms a complex with CDC7. Note that CDC7 forms distinct complex either with DBF4A or DBF4B. Such complexes are stable upon replication stress. Interacts with MEN1, MCM2, ORC2L, ORC4L and ORC6L.,tissue specificity:Highly expressed in testis and thymus. Expressed also in most cancer cells lines.,

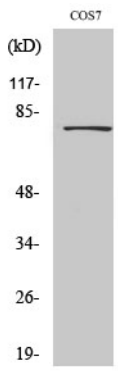
Research Area

Cell_Cycle_G1S;Cell_Cycle_G2M_DNA;

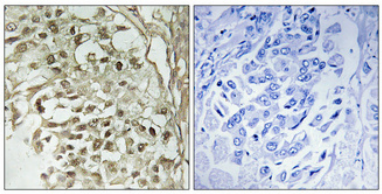
Image Data



Western blot analysis of lysates from NIH/3T3 cells, treated with H2O2 100uM 30 ', COS7 treated with PMA 125ng/ml 30 ',using DBF4 Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using Dbf4 Polyclonal Antibody.



Immunohistochemical analysis of paraffin-embedded Human breast cancer. Antibody was diluted at 1:100（4°,overnight）. High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negetive contrl（right）obtaned from antibody was pre-absorbed by immunogen peptide.