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DBF4A Rabbit pAb

Catalog # AP99408

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q9UBU7
Other Accession	Q9UBU7
Predicted	Rat, Pig, Human, Mouse, Rabbit, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	76858
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human DBF4A
Epitope Specificity	21-110/674
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 2 BRCT domains. Contains 1 DBF4-type zinc finger.
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, ORC2, ORC4 and ORC6.
Post-translational modifications	Phosphorylated upon DNA damage, probably by ATM or ATR.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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. Tissue specificity: Highly expressed in testis and thymus. Expressed also in most cancer cells lines.

Additional Information

Gene ID	10926
Other Names	DBF4A_HUMAN; DBF4; Activator of S phase kinase; Chiffon homolog A; DBF4-type zinc finger-containing protein 1; ASK; DBF4A; ZDBF1; DBF4A_MOUSE; MuDBF4; DBF4_YEAST; Dumbbell forming protein 4; DNA52; CHIF; RGD1305854; DBF4-CDC7 kinase regulatory subunit; DBF4 homolog (S. cerevisiae); DBF4 zinc finger; chiffon homolog (Drosophila); zinc finger, DBF-type containing 1; DBF4 zinc finger A; regulatory subunit of DDK
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

Storage	reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	DBF4
Synonyms	ASK, DBF4A, ZDBF1
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.
Cellular Location	Nucleus.
Tissue Location	Highly expressed in testis and thymus. Expressed also in most cancer cells lines.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.