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phospho-Cyclin E2 (Thr396) Rabbit pAb

Catalog # AP99133

Product Information

Application	IHC-P, IHC-F, IF, E
Predicted	Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	44 KDa
Physical State	Liquid
Immunogen	KLH conjugated Synthesised phosphopeptide derived from rat Cyclin E2 around the phosphorylation site of Thr396
Epitope Specificity	LL(p-T)PP
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the cyclin family. Cyclin E subfamily.
SUBUNIT	Interacts with the CDK2 (in vivo) and CDK3 (in vitro) protein kinases to form a serine/threonine kinase holoenzyme complex. The cyclin subunit imparts substrate specificity to the complex.
Post-translational modifications	Phosphorylation by CDK2 triggers its release from CDK2 and degradation via the ubiquitin proteasome pathway.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The human Cyclin E2 gene encodes a 404 amino acid protein that is most closely related to Cyclin E. Cyclin E2 mRNA levels peaks at the G1 / S transition. Cyclin E2 associates with Cdk2 in a functional kinase complex that is inhibited by both p27 (Kip1) and p21 (Cip1). Cyclin E2 / Cdk2 phosphorylates histone H1 in vitro. G1 cyclin E controls the initiation of DNA synthesis by activating CDK2. Abnormally high levels of cyclin E expression have frequently been observed in human cancers. Unlike Cyclin E1, which is expressed in great majority of proliferating normal and neoplastically transformed cells, Cyclin E2 levels are low to undetectable in non transformed cells and increase significantly in neoplasm derived cells.

Additional Information

Gene ID	114494
Other Names	CCNA; CCN1; Ccn-1; CycA2; Cyca; CCNA2_BOVIN; CCNA2; Cyclin-A; CCNA2_HUMAN; Cyclin A; CCNA2_MOUSE; cyclin E2; CCNE2 | Cyclin-E2 (phospho-T396); p-Cyclin-E2; phospho-Cyclin-E2; p-CCNE2; CCNE2 | Cyclin-E2 (phospho-Thr396)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When 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.
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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.