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NS5ATP9 Rabbit pAb

Catalog # AP97568

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q15004
Other Accession	Q15004
Reactivity	Rat
Predicted	Pig, Human, Mouse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	11986
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human NS5ATP9/KIAA0101
Epitope Specificity	51-111/111
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBUNIT	Interacts (when monoubiquitinated at Lys-15 and Lys-24)with PCNA. Interacts with isoform 2/p33ING1b of ING1. Interacts with BRCA1.
Post-translational modifications	Monoubiquitinated at Lys-15 and Lys-24 during normal S phase, promoting its association with PCNA. Also diubiquitinated at these 2 sites. Following DNA damage, monoubiquitin chains at Lys-15 and Lys-24 are probably extended, leading to disrupt the interaction with PCNA. Polyubiquitinated by the APC/C complex at the mitotic exit, leading to its degradation by the proteasome.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	NS5ATP9/PAF/p15(PAF) is involved in protection of cells from UV-induced cell death and is also a Hepatitis C NS5A up-regulation gene which may play a role in the pathogenesis of HCV-associated hepatocellular carcinoma.

Additional Information

Gene ID	9768
Other Names	KIAA0101; L5; NS5ATP9; OEATC; OEATC-1; OEATC1; PAF; PAF15; p15(PAF); p15/PAF; p15PAF; PAF15_HUMAN; PCLAF; Hepatitis C virus NS5A-transactivated protein 9 (HCV NS5A-transactivated protein 9); Overexpressed in anaplastic thyroid carcinoma 1 (OEATC-1); PCNA-associated factor of 15 kDa (PAF15 | p15PAF); PCNA-clamp-associated factor; PCNA clamp associated factor; PCNA-associated factor
Dilution	IHC-P=1:100-500,IHC-F=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.

Protein Information

Name	PCLAF (HGNC:28961)
Synonyms	KIAA0101, NS5ATP9, PAF
Function	PCNA-binding protein that acts as a regulator of DNA repair during DNA replication. Following DNA damage, the interaction with PCNA is disrupted, facilitating the interaction between monoubiquitinated PCNA and the translesion DNA synthesis DNA polymerase eta (POLH) at stalled replisomes, facilitating the bypass of replication-fork- blocking lesions. Also acts as a regulator of centrosome number.
Cellular Location	Nucleus. Cytoplasm, perinuclear region. Note=Following DNA damage, localizes to DNA damage sites (PubMed:21628590). Colocalizes with centrosomes in perinuclear region (PubMed:21673012)
Tissue Location	Expressed predominantly in liver, pancreas and placenta. Not detected in heart or brain. Highly expressed in a number of tumors, especially esophageal tumors, in anaplastic thyroid carcinomas, adrenocortical carcinomas, and in non-small-cell lung cancer lines.

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