ARG43096
anti-RNF123 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes RNF123
Tested Reactivity	Hu, Ms, Rat
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	RNF123
Species	Human
Immunogen	Recombinant protein corresponding to R12-Y188 of Human RNF123.
Conjugation	Un-conjugated
Alternate Names	KPC1; EC 6.3.2.-; RING finger protein 123; E3 ubiquitin-protein ligase RNF123; FP1477; Kip1 ubiquitination-promoting complex protein 1

Application Instructions

Application table

Application	Dilution
IHC-P	1:200 - 1:1000
WB	1:500 - 1:2000

Application Note: IHC-P: Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Observed Size: ~ 160 kDa

Properties

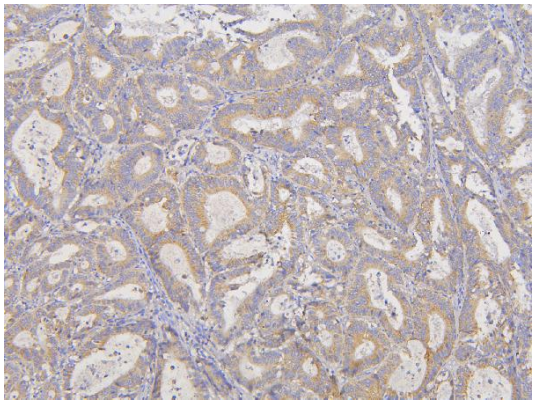
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na2HPO4, 0.9% NaCl, 0.05% Sodium azide and 4% Trehalose.
Preservative	0.05% Sodium azide
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

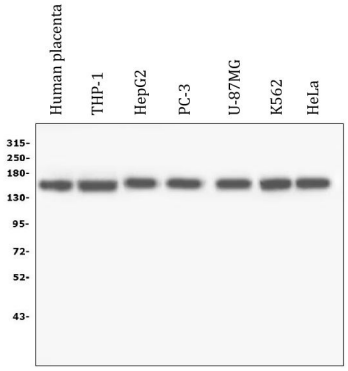
Gene Symbol	RNF123
Gene Full Name	ring finger protein 123
Background	The protein encoded by this gene contains a C-terminal RING finger domain, a motif present in a variety of functionally distinct proteins and known to be involved in protein-protein and protein-DNA interactions, and an N-terminal SPRY domain. This protein displays E3 ubiquitin ligase activity toward the cyclin-dependent kinase inhibitor 1B which is also known as p27 or KIP1. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2016]
Function	Catalytic subunit of the KPC complex that acts as E3 ubiquitin-protein ligase. Promotes the ubiquitination and proteasome-mediated degradation of CDKN1B which is the cyclin-dependent kinase inhibitor at the G0-G1 transition of the cell cycle (PubMed:15531880, PubMed:16227581). Functions also as an inhibitor of innate antiviral signaling mediated by DDX58 and IFIH1 independently of its E3 ligase activity (PubMed:27312109). Interacts with the N-terminal CARD domains of DDX58 and IFIH1 and competes with the downstream adapter MAVS (PubMed:27312109). [UniProt]
Calculated Mw	149 kDa
PTM	Ubiquitinated, leading to its degradation. Deubiquitinated by USP19, thereby stimulating CDKN1B ubiquitin-dependent degradation. [UniProt]
Cellular Localization	Cytoplasm. [UniProt]

Images



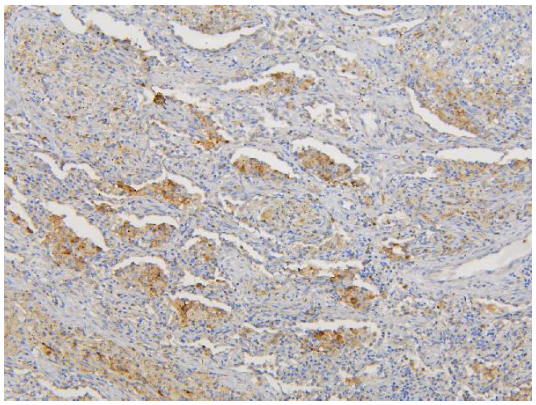
ARG43096 anti-RNF123 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human intestinal cancer tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG43096 anti-RNF123 antibody at 1 µg/ml dilution, overnight at 4°C.



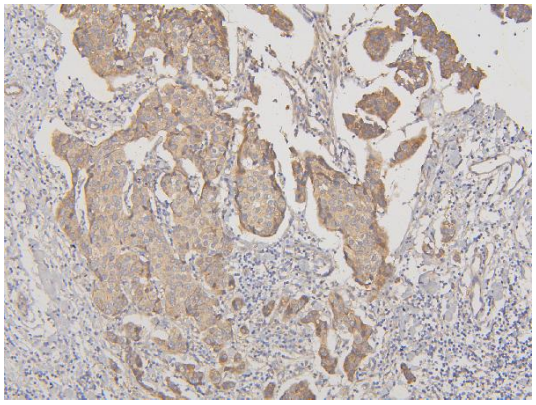
ARG43096 anti-RNF123 antibody WB image

Western blot: 50 µg of sample under reducing conditions. Human placenta, THP-1, HepG2, PC-3, U-87MG, K562 and HeLa whole cell lysates stained with ARG43096 anti-RNF123 antibody at 0.5 µg/ml dilution, overnight at 4°C.



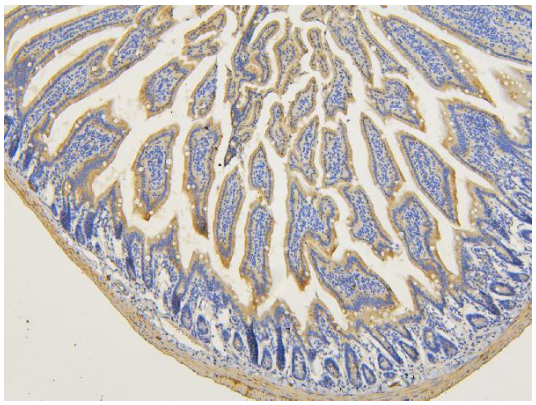
ARG43096 anti-RNF123 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human lung cancer tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG43096 anti-RNF123 antibody at 1 µg/ml dilution, overnight at 4°C.



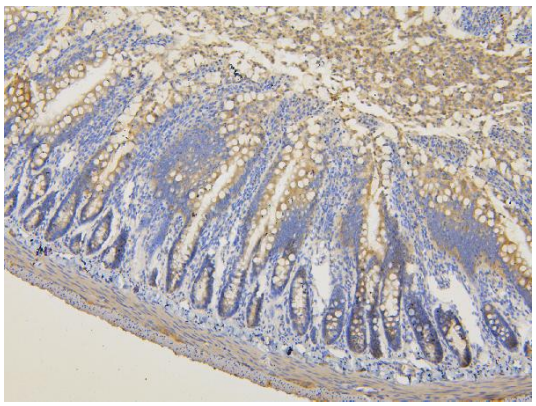
ARG43096 anti-RNF123 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human mammary cancer tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG43096 anti-RNF123 antibody at 1 µg/ml dilution, overnight at 4°C.



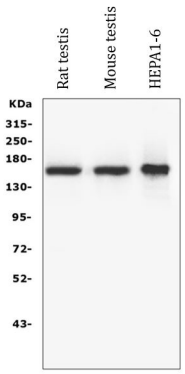
ARG43096 anti-RNF123 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Mouse intestine tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG43096 anti-RNF123 antibody at 1 µg/ml dilution, overnight at 4°C.



ARG43096 anti-RNF123 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat intestine tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG43096 anti-RNF123 antibody at 1 µg/ml dilution, overnight at 4°C.



ARG43096 anti-RNF123 antibody WB image

Western blot: 50 µg of sample under reducing conditions. Rat testis, Mouse testis and HEPA1-6 whole cell lysates stained with ARG43096 anti-RNF123 antibody at 0.5 µg/ml dilution, overnight at 4°C.