

Regucalcin Rabbit pAb

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Catalog # AP94749

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q15493
Reactivity	Rat, Human, Mouse
Predicted	Pig, Dog, Rabbit, Chicken, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	33253
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Regucalcin
Epitope Specificity	65-160/299
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Regucalcin is a Ca ²⁺ binding protein that is encoded by a highly conserved gene in vertebrate species. Regucalcin is greatly expressed in liver and kidney cortex, and the expression is mediated through a Ca ²⁺ signaling mechanism with AP1 and NFI-A1 as transcriptional factors. It plays a multifunctional role as a regulatory protein in intracellular signaling processes in the cytoplasm and nucleus of cells including the maintenance of intracellular Ca ²⁺ homeostasis, the regulation of various Ca ²⁺ dependent protein kinases and tyrosine kinases, protein phosphatases, nitric oxide (NO) synthase, and the suppression of nuclear DNA and RNA syntheses. Regucalcin has suppressive effects on cell proliferation, cell death and apoptosis, and is suggested to play a physiologic role in the maintenance of cellular homeostasis.

Additional Information

Gene ID	9104
Other Names	Regucalcin, RC, Gluconolactonase, GNL, 3.1.1.17, Senescence marker protein 30, SMP-30, RGN, SMP30
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=2ug/Test
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.

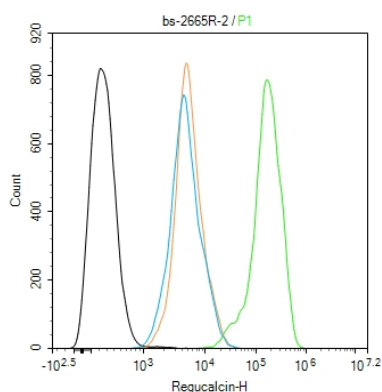
Protein Information

Name	RGN
Synonyms	SMP30
Function	Gluconolactonase with low activity towards other sugar lactones, including gulonolactone and galactonolactone. Can also hydrolyze diisopropyl phosphorofluoridate and phenylacetate (in vitro). Calcium-binding protein. Modulates Ca(2+) signaling, and Ca(2+)- dependent cellular processes and enzyme activities (By similarity).
Cellular Location	Cytoplasm.

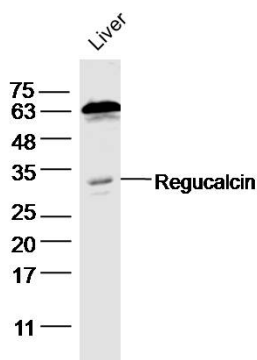
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Images

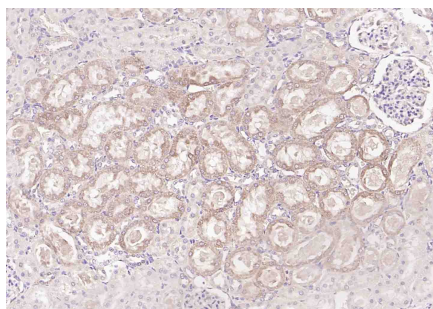


Blank control(black line):HepG2.
Primary Antibody (green line): Rabbit Anti-Regucalcin antibody (AP94749)
Dilution:2ug/Test;
Secondary Antibody(white blue line): Goat anti-rabbit IgG-AF488
Dilution: 0.5ug/Test.
Isotype control(orange line): Normal Rabbit IgG
Protocol
The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at -20°C, The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.



Sample: Liver (Mouse) Lysate at 40 ug
Primary: Anti-Regucalcin (AP94749) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 33 kD
Observed band size: 33 kD

Paraformaldehyde-fixed, paraffin embedded (rat kidney);
Antigen retrieval by boiling in sodium citrate buffer



(pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Incubation with (Regucalcin) Polyclonal Antibody, Unconjugated (AP94749) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

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