

For Research Use Only

RENALASE Monoclonal antibody

Catalog Number: 60128-1-Ig **3 Publications**



Basic Information

| | | |
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| Catalog Number: 60128-1-Ig | GenBank Accession Number: BC005364 | Purification Method: Protein G purification |
| Size: 150ul , Concentration: 1000 ug/ml by Nanodrop and 600 ug/ml by Bradford method using BSA as the standard; | GeneID (NCBI): 55328 | CloneNo.: 3A12F5 |
| Source: Mouse | UNIPROT ID: Q5VYX0 | Recommended Dilutions: WB 1:2000-1:10000 IHC 1:20-1:200 |
| Isotype: IgG1 | Full Name: chromosome 10 open reading frame 59 | |
| Immunogen Catalog Number: AG13061 | Calculated MW: 38 kDa | |
| | Observed MW: 38 kDa | |

Applications

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| Tested Applications: WB, IHC, ELISA | Positive Controls: |
| Cited Applications: WB | WB : OS-RC-2 cells, A431 cells, MG-63 cells, ACHN cells, Caki-1 cells |
| Species Specificity: human | IHC : human kidney tissue, human skeletal muscle tissue |
| Cited Species: human, mouse | |
| Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 | |

Background Information

RNLS, also named as Renalase, C10orf59 and MAO-C, belongs to the renalase family. It is probable FAD-dependent amine oxidase secreted by the kidney, which circulates in blood and modulates cardiac function and systemic blood pressure. RNLS degrades catecholamines such as dopamine, norepinephrine and epinephrine in vitro. It lowers blood pressure in vivo by decreasing cardiac contractility and heart rate and preventing a compensatory increase in peripheral vascular tone, suggesting a causal link to the increased plasma catecholamine and heightened cardiovascular risk. High concentrations of catecholamines activate plasma renalase and promotes its secretion and synthesis. RNLS has physiologically relevant catecholamine-oxidizing activity. (PMID:15841207) This antibody is specific to RNLS.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|-----------------|-----------|-------------------------|-------------|
| Desir Gary V GV | 23107895 | J Am Soc Hypertens | WB |
| Tara MacDonald | 38915698 | bioRxiv | WB |
| Desir Gary V GV | 24137013 | Nephrol Dial Transplant | WB |

Storage

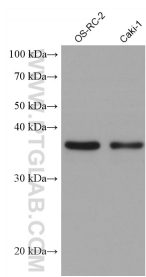
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

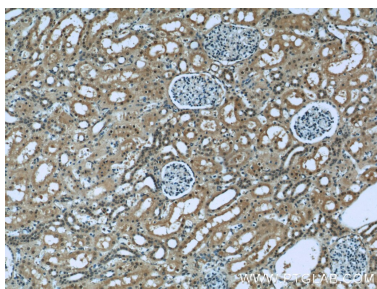
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

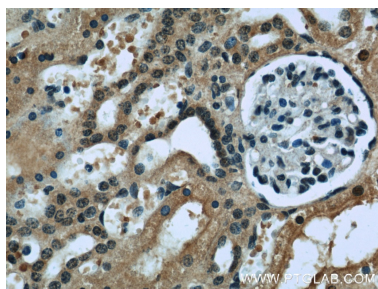
Selected Validation Data



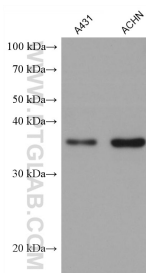
Various lysates were subjected to SDS PAGE followed by western blot with 60128-1-Ig (RENALASE antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human kidney slide using 60128-1-Ig (RENALASE Antibody) at dilution of 1:50.



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