

For Research Use Only

APOBEC2 Polyclonal antibody

Catalog Number: 20121-1-AP

2 Publications



Basic Information

Catalog Number:

20121-1-AP

Size:

150ul, Concentration: 1300 ug/ml by Nanodrop and 487 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG13699

GenBank Accession Number:

BC047767

GeneID (NCBI):

10930

UNIPROT ID:

Q9Y235

Full Name:

apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 2

Calculated MW:

26 kDa

Observed MW:

25-30 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:5000-1:50000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

Applications

Tested Applications:

WB, IP, IHC, ELISA

Species Specificity:

human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : mouse heart tissue, mouse skeletal muscle tissue, rat heart tissue, rat skeletal muscle tissue

IP : mouse skeletal muscle tissue,

IHC : mouse heart tissue, human heart tissue

Background Information

APOBEC2, also named as ARCD1 and ARP1, is a member of the activation-induced deaminase/apolipoprotein B mRNA editing enzyme catalytic polypeptide (APOBEC) cytidine deaminase family expressed in differentiated skeletal and cardiac muscle. APOBEC family members have diverse roles by their ability to edit DNA and/or RNA. Apobec2 is one of the oldest members of the APOBEC family, along with the lymphoid-specific activation-induced deaminase. Unlike other APOBEC family members, the enzymatic activity and substrate of Apobec2 have not been fully demonstrated, and its biologic functions remain unknown. It can be detected as 25-30 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Aimei Li	31485598	Int J Oncol	
Antti Nätyinki	38326167	J Dermatol Sci	

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

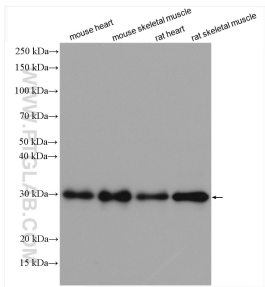
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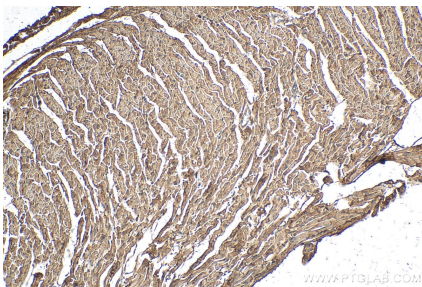
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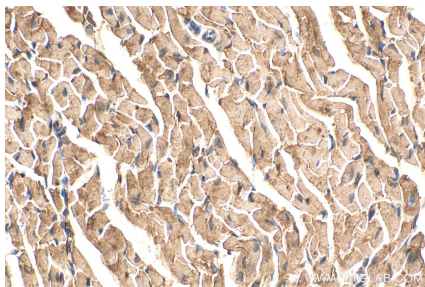
Selected Validation Data



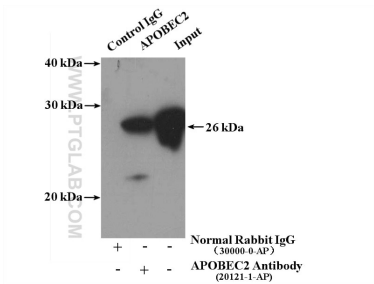
Various lysates were subjected to SDS PAGE followed by western blot with 20121-1-AP (APOBEC2 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 20121-1-AP (APOBEC2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 20121-1-AP (APOBEC2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-APOBEC2 (IP:20121-1-AP, 4ug; Detection:20121-1-AP 1:500) with mouse skeletal muscle tissue lysate 4000ug.