For Research Use Only

CA12 Polyclonal antibody

Catalog Number: 15180-1-AP

Featured Product

21 Publications



Basic Information

Catalog Number:

15180-1-AP

GenBank Accession Number:

BC000278

Size: GeneID (NCBI):

150ul, Concentration: 700 ug/ml by 771

Nanodrop and 427 ug/ml by Bradford UNIPROT ID:

method using BSA as the standard; O43570

Source: Full Name: Rabbit carbonic an

Rabbit carbonic anhydrase XII
Isotype: Calculated MW:

IgG 39 kDa

Immunogen Catalog Number: Observed MW:

AG7107 44 kDa, 75-80 kDa

Positive Controls:

WB: A549 cells, BxPC-3 cells, MCF-7 cells

IHC: human brown disease, human pancreas tissue

Purification Method:

WB 1:2000-1:10000

IHC 1:500-1:2000

Antigen affinity purification

Recommended Dilutions:

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC, IF, IP

Species Specificity:

human, mouse, rat

Cited Species:

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

Background Information

CA12 belongs to the alpha-carbonic anhydrase family. It reverses the hydration of carbon dioxide. Overexpression of the zinc enzyme CA12 is observed in certain human cancers. The structure reveals a prototypical CA fold; however, two CA12 domains associate to form an isologous dimer, an observation that is confirmed by studies of the enzyme in solution.

Notable Publications

Author	Pubmed ID	Journal	Application
Pan-Ling Xu	34597654	J Ethnopharmacol	WB
Soyoung Hwang	31546841	Molecules	WB,IF
Sang-Woo Kim	28901294	Nanotechnology	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.

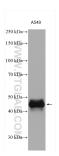
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

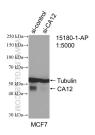
Selected Validation Data



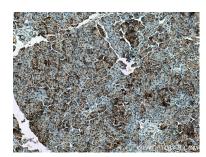
Immunohistochemical analysis of paraffinembedded human brown disease slide using 15180-1-AP (CA12 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



A549 cells were subjected to SDS PAGE followed by western blot with 15180-1-AP (CA12 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



WB result of CA12 antibody (15180-1-AP; 1:5000; incubated at room temperature for 1.5 hours) with sh-Control and sh-CA12 transfected MCF-7 cells.



Immunohistochemical analysis of paraffinembedded human pancreas tissue slide using 15180-1-AP (CA12 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human pancreas tissue slide using 15180-1-AP (CA12 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).