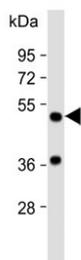


## AADC Antibody / DOPA Decarboxylase / DDC (F54418)

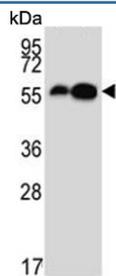
Catalog No.	Formulation	Size
F54418-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54418-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

[Bulk quote request](#)

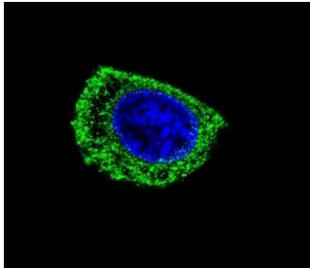
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human, Mouse
<b>Format</b>	Purified
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit Ig
<b>Purity</b>	Antigen affinity purified
<b>UniProt</b>	P20711
<b>Localization</b>	Cytoplasmic
<b>Applications</b>	Flow Cytometry : 1:25 (1x10e6 cells) Immunohistochemistry (FFPE) : 1:25 Western Blot : 1:500-1:2000 Immunofluorescence : 1:25
<b>Limitations</b>	This AADC antibody is available for research use only.



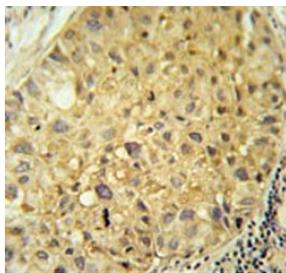
Western blot testing of human kidney lysate with AADC antibody. Predicted molecular weight ~54 kDa.



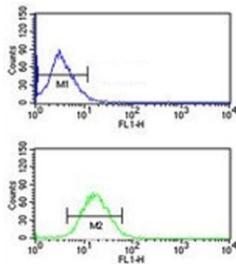
Western blot testing of mouse 1) liver and 2) kidney lysate with AADC antibody.  
Predicted molecular weight ~54 kDa.



Immunofluorescent staining of human HepG2 cells with AADC antibody (green) and DAPI nuclear stain (blue).



IHC testing of FFPE human hepatocarcinoma tissue with AADC antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



Flow cytometry testing of human HepG2 cells with AADC antibody; Blue=isotype control, Green= AADC antibody.

## Description

This protein catalyzes the decarboxylation of L-3,4-dihydroxyphenylalanine (DOPA) to dopamine, L-5-hydroxytryptophan to serotonin and L-tryptophan to tryptamine. Defects in this gene are the cause of aromatic L-amino-acid decarboxylase deficiency (AADCD). AADCD deficiency is an inborn error in neurotransmitter metabolism that leads to combined serotonin and catecholamine deficiency.

## Application Notes

The stated application concentrations are suggested starting points. Titration of the AADC antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

A portion of amino acids 32-61 from the human protein was used as the immunogen for the AADC antibody.

## Storage

Aliquot the AADC antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.

