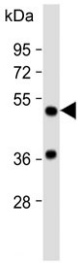
AADC Antibody / DOPA Decarboxylase / DDC (F54418)

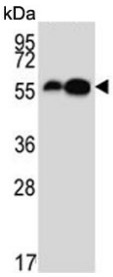
Catalog No.	Formulation	Size
F54418-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54418-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

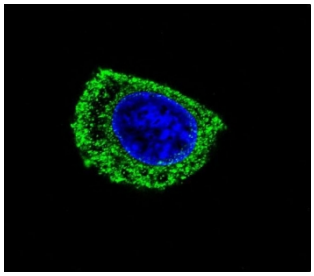
Availability	1-3 business days
Species Reactivity	Human, Mouse
Format	Purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity purified
UniProt	P20711
Localization	Cytoplasmic
Applications	Flow Cytometry : 1:25 (1x10e6 cells) Immunohistochemistry (FFPE) : 1:25 Western Blot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



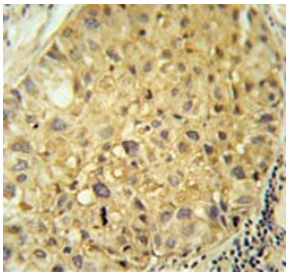
Western blot testing of human kidney lysate with AADC antibody. Predicted molecular weight ~54 kDa.



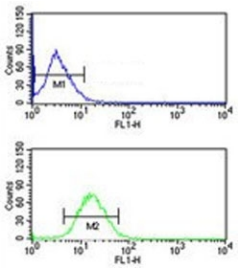
Western blot testing of mouse 1) liver and 2) kidney lysate with AADC antibody. Predicted molecular weight ~54 kDa.



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 AADCantibody 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 -20oC or colder. Avoid repeated freeze-thaw cycles.