For Research Use Only

TH Monoclonal antibody

Catalog Number:66334-1-Ig Featured Product 23 Publications

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Basic Information

Catalog Number:
66334-1-Ig

Size:
2000 μg/ml

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG23075

GenBank Accession Number:
BC104967

GeneID (NCBI):
7054

UNIPROT ID:
P07101

Full Name:
tyrosine hydroxylase

Calculated MW:
528 aa, 59 kDa

Observed MW:
55 kDa

Purification Method:
Protein G purification

CloneNo.:
2H7B7

Recommended Dilutions:
WB 1:3000-1:20000
IF/ICC 1:50-1:500

Applications

Tested Applications:
IF/ICC, WB, ELISA

Cited Applications:
WB, IHC, IF

Species Specificity:
human

Cited Species:
human

Positive Controls:

WB : PC-12 cells, SH-SY5Y cells

IF/ICC : SH-SY5Y cells,

Background Information

TH(Tyrosine 3-monooxygenase) converts L-tyrosine to L-3,4-dihydroxyphenylalanine (L-DOPA), the essential and rate-limiting step to formation of DA and other catecholamines. TH plays an important role in the physiology of adrenergic neurons and can be used as a marker for DA and noradrenergic neurons.

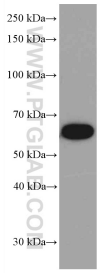
Notable Publications

Author	Pubmed ID	Journal	Application
Ting Yu	32971086	Eur J Pharmacol	WB
Amos H. P. Loh	36176417	Front Oncol	IHC
Emily-Rose Martin	36339621	Front Pharmacol	WB

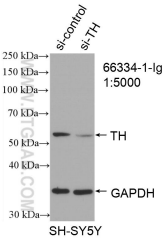
Storage

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

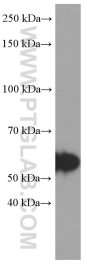
Selected Validation Data



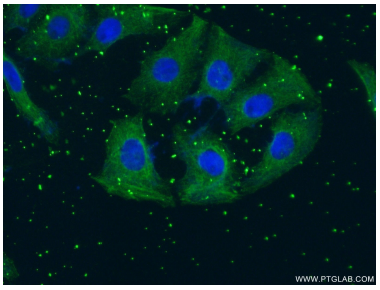
PC-12 cells were subjected to SDS PAGE followed by western blot with 66334-1-Ig (TH antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



WB result of TH antibody (66334-1-Ig; 1:5000; incubated at room temperature for 1.5 hours) with sh-Control and sh-TH transfected SH-SY5Y cells.



SH-SY5Y cells were subjected to SDS PAGE followed by western blot with 66334-1-Ig (TH Antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20℃ Ethanol) fixed SH-SY5Y cells using 66334-1-Ig(TH antibody) at dilution of 1:100 and Alexa Fluor 488-conjugated Goat Anti-Mouse IgG(H+L).