Data Sheet (Cat.No.TMAC-04178)

Anti-Tyrosine Hydroxylase Antibody (9P45)

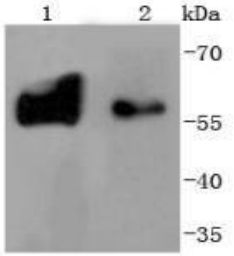
Product Details

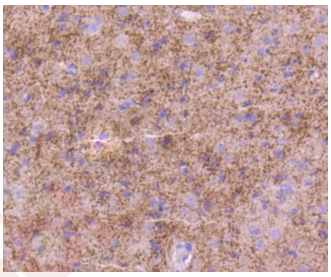
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 59 kDa.
Clone:	9P45
Purification:	ProA affinity purified

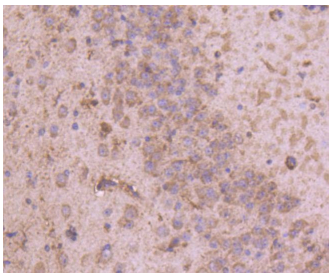
Applications

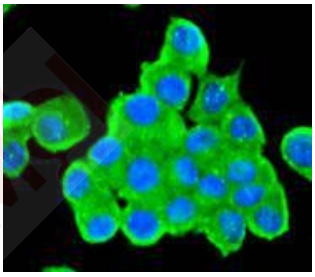
Verified Activity:

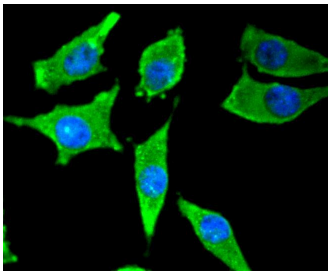
1. Western blot analysis of Tyrosine Hydroxylase on different lysates using anti-Tyrosine Hydroxylase antibody at 1/50,000 dilution. Positive control: Lane 1: PC-12, Lane 2: Mouse brain.
2. Immunohistochemical analysis of paraffin-embedded rat brain tissue using anti-Tyrosine Hydroxylase antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-Tyrosine Hydroxylase antibody. Counter stained with hematoxylin.
4. ICC staining Tyrosine Hydroxylase in N2A cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
5. ICC staining Tyrosine Hydroxylase in SH-SY-5Y cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
6. Flow cytometric analysis of SH-SY-5Y cells with Tyrosine Hydroxylase antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was use as the secondary antibody.

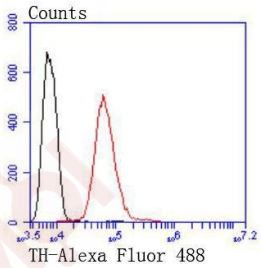












Application: FCM,ICC,IHC,WB

Recommended: WB: 1:50000-100000; IHC: 1:50-200; ICC: 1:100-500; FCM: 1:50-100

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: P07101

Synonyms: tyrosine hydroxylase

Research Background

The enzyme tyrosine hydroxylase (TH), also designated tyrosine 3-monooxygenase (TY3H), catalyzes the conversion of tyrosine to L-dopa, which is the rate limiting step in the biosynthesis of catecholamines such as dopamine, adrenalin and noradrenalin. TH is thought to play a role in the pathogenesis of Parkinson??s disease, which is associated with reduced dopamine levels. Two transcription factor binding sites in the proximal region of the TH gene, the TPA-responsive element (TRE) and the c-AMP responsive element (CRE), have been implicated in the

complex regulation of the TH gene. TH is also known to be upregulated by the glia maturation factor (GMF), a Cdc 10/SWI6 motif-containing protein called V-1, and a variety of additional compounds.

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