

产品说明书

TPH1 Rabbit mAb (H5301)

货号: HL21037

产品名称	TPH1 Rabbit mAb (H5301)
来源宿主	Rabbit
反应种属	Human,Mouse,Rat,
克隆类型	Rabbit monoclonal
克隆号	H5301
同种型	IgG
标记	unconjugated
纯化方式	Protein A affinity purified.
形式	Liquid
存储溶液	PBS (pH7.4),50% Glycerol,0.05% BSA,0.05% Proclin 300
存储方式	Store at +4℃ after thawing. Aliquot store at -20℃. Avoid repeated freeze / thaw cycles.
应用	IHC,mlHC,IF
使用方法	IHC 1:50-1:200;mlHC 1:50-1:200;IF 1:50-1:200
有效期	one year
别名	L tryptophan hydroxylase;TPH 1;TPH ;TPRH;Tryptophan 5 hydroxylase 1 ;
SwissProt	P17752 Human;P17532 Mouse;P09810 Rat
细胞定位	Cytosol, neuron projection.
产品介绍	Phenylalanine hydroxylase (PAH), tyrosine hydroxylase (TH) and tryptophan hydroxylase (TPH) comprise a small family of monooxygenases that use tetrahydropterine as a cofactor during the catabolism of aromatic L-amino acids. PAH, TH and TPH all contain catalytic domains with an amino-terminal regulatory domain and a short carboxy-terminal tetramerization domain. Each of these enzymes also contains a single ferrous iron atom, which is bound to two histidines and a glutamate and is likely to be involved in the formation of the hydroxylating intermediate. TPH is the first and rate-limiting step in the biosynthesis of serotonin in the central nervous system and melatonin in the pineal gland. Alteration of TPH function may be a key factor in the pathology of several neuropsychiatric disorders associated with serotonin, including depression, aggression, alcoholism and schizophrenia. For instance, L-DOPA, which is used as a common therapy for Parkinson's disease (PD) patients, inhibits TPH function, which subsequently, is thought to contribute to the onset of depression in PD patients.

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