

For Research Use Only

TPH1 Polyclonal antibody

Catalog Number: 20879-1-AP



Basic Information

Catalog Number: 20879-1-AP	GenBank Accession Number: BC106739	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 327 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 7166	Recommended Dilutions: WB 1:200-1:1000
Source: Rabbit	Full Name: tryptophan hydroxylase 1	
Isotype: IgG	Calculated MW: 466 aa, 53 kDa	
Immunogen Catalog Number: AG14978	Observed MW: 51 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : SH-SY5Y cells,
Species Specificity: human, mouse	

Background Information

Tryptophan hydroxylase 1 (TPH1) catalyzes the rate-limiting step in the synthesis of serotonin in the periphery. Recently, it has been shown that expression of the tryptophan hydroxylase 1 gene is increased in lungs and pulmonary endothelial cells from patients with idiopathic pulmonary arterial hypertension. It catalyzes the bipterin-dependent monooxygenation of tryptophan to 5-hydroxytryptophan (5HT), which is subsequently decarboxylated to form the neurotransmitter serotonin. The protein has low expression.

Storage

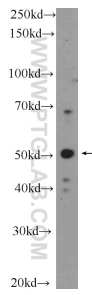
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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Selected Validation Data



SH-SY5Y cells were subjected to SDS PAGE followed by western blot with 20879-1-AP (TPH1 Antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.